

Robert Greene Sterne ald I Feathers

Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich lawrence I. Carroll

Registered Patent Agents' Karen R. Markowicz Andrea J. Kamage Lleith Summerfield C. Carlson Schwartz

John J. Figueroa

Admitted only in Virgin Admitted only in Texas

August 16, 2002

WRITER'S DIRECT NUMBER: (202) 371-2674

**INTERNET ADDRESS:** 

mlee@skgf.com

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Non-Provisional Utility Patent Application

Appl. No. 09/855,851; Filed: May 16, 2001

Apparatus, System, and Method for Down-Converting AUG 2 0 2002

and Up-Converting Electromagnetic Signals

Inventors: Sorrells et al.

Our Ref: 1744.1260001

RECEIVED

Art Unit 2681

Technology Center 2600

Sir:

Transmitted herewith for appropriate action are the following documents:

- Information Disclosure Statement; 1.
- 2. Form PTO-1449 (56 pages) listing 793 documents;
- 3. Compact Discs labeled "Sterne1B" and "Sterne2B" having stored thereon searchable electronic copies (in PDF format) of each document listed in the PTO-1449, with the exception of Documents AC46-AI46, AA47-AI47, AA48-AI48, AA49-AI49, AA50, AB50, AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19, AK19, AQ51, AR51, AN52-AR52, AN53-AR53, AN54-AR54, AN55-AR55 and AN56 which have not yet been scanned;
- 4. Hard copies of all documents listed on the Form PTO-1449, which copies are enclosed in three boxes; and
- 5. One return postcard.

Commissioner for Patents August 16, 2002 Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Sterne, Kessler, Goldstein & Fox p.l.l.c.

Michael Q. Lee

Attorney for Applicants Registration No. 35,239

**Enclosures** 

MQL/VLB/sjc ::ODMA\MHODMA\SKGF\_DC1;46062;1



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al*.

Appl. No. 09/855,851

Filed: May 16, 2001

For:

Apparatus, System, And Method for Down-Converting And Up-Converting

**Electromagnetic Signals** 

Confirmation No. 9178

Art Unit: 2681

Examiner: To Be Assigned

Atty. Docket: 1744.1260001

## **Information Disclosure Statement**

Commissioner for Patents Washington, D.C. 20231

RECEIVED
AUG 2 0 2002
Technology Center 2600

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

In addition to providing hard copies of the documents as required by applicable rules, Applicants herewith provide two Compact Discs labeled "Sterne1B" and "Sterne2B" having stored thereon searchable electronic copies (in PDF format) of the documents listed on the PTO-1449. More specifically, the "Sterne1B" CD contains electronic copies of documents AA1-AR1, AA2-AR2, AA3-AR3, AA4-AR4, AA5-AR5, AA6-AR6, AA7-AR7, AA8-AR8, AA9-AR9, AA10-AR10, AA11-AR11, AA12-AR12, AA13-AL13, AN13-AR13, AA14-AI14, AN14-AR14, AA15-AI15, AN15-AR15, AA16-AI16, AN16-AR16, AA17-AI17, AN17-AR17, AA18-AI18, AN18-AR18, AA19-AI19, AN19-AR19, AA20-AI20, AN20-AR20, AA21-AI21, AN21-AR21, AA22-AI22, AN22-AR22, AA23-AI23, AN23-AR23, AA24-AI24, AN24-AR24, AA25-AI25, AN25-AR25, AA26-AI26, AN26-AR26, AA27-AI27, AN27-AR27, AA28-AI28, AN28-AR28, AA29-AI29, AN29-AR29, AA30-AI30, AN30-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR33, AA33-AI33, AN33-AR33, AN33-AR

AR33, AA34-AI34, AN34-AR34, AA35-AI35, AN35-AR35, AA36-AI36, AN36-AR36, AA37-AI37, AN37-AR37, AA38-AI38, AN38-AR38, AA39-AI39 and AN39-AR39, and the "Sterne2B" CD contains electronic copies of documents AA40-AI40, AA41-AI41, AA42-AI42, AA43-AI43, AA44-AI44, AA45-AI45, AA46-AB46, AM10, AJ11-AM11, AJ12-AM12, AJ13-AL13, AP50-AR50 and AN51-AP51. Documents AC46-AI46, AA47-AI47, AA48-AI48, AA49-AI49, AA50, AB50, AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19, AK19, AQ51, AR51, AN52-AR52, AN53-AR53, AN54-AR54, AN55-AR55 and AN56 have not yet been scanned. The file names on the CDs correspond to the identifiers on the PTO-1449. It is noted that the CDs are being provided in addition to hard copies of the documents for the convenience of the Examiner.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AD1, AL1, AO1, AC2, AF2, AG2, AI2, AC5, AG5, AB6, AF7, AI7, AB8, AF8, AG9, AK9, AO9, AO11, AA12, AE14, AN14, AB15, AE15, AH15, AO15, AF16, AD18, AG18, AB20, AC20, AQ20, AA22, AH22, AI23, AC24, AF26, AC30, AH31, AC32, AA33, AR33, AH34, AP35 and AO48 were included with Petitions to Make Special

pleadings in co-owned related U.S. Patent Nos. 6,061,551, 6,061,555, 6,049,706 and 6,091,940.

Documents AM4, AH6, AL7, AJ9, AM9, AC17, AA20, AG20, AG21, AA24, AD24, AG24, AI31, AA32, AG34, AD36 and AQ37 were cited in searches performed at Applicants' request by the European Patent Office's Searching Authority in the above-referenced co-owned related patents.

Documents AA6, AD6, AO6, AE7, AE8, AA11, AE11, AH11, AI12, AB13, AD13, AH13, AC14, AG14, AE16, AB17, AF19, AD20, AN21, AG23, AH27, AI27, AI28, AH29, AG30, AD37, AR40, AO49 and AQ49 were suggested or identified by potential licensees.

Documents AH5, AH17, AD21, AB34, AE34, AB36, AI36 and AI38 were cited by the Examiner in the above-referenced co-owned related patents.

Documents AR21, AN22-AR22, AN23-23, AN24-AR24, AN25-AR25, AN26-AR26, AN27-AR27, AN28-AR28, AN29-AR29, AN30-AR30, AN31-AR31, AN32-AR32 and AN33-AP33 are press releases issued by assignee ParkerVision, Inc.

Documents AP6-AR6 and AN7-AP7 are copies of Declarations (including Exhibits) made by Messrs. Bultman, Cook, Holtz, Looke, Moses, Parker, and Sorrells, filed in the above-referenced co-owned related patents.

Documents AJ1, AL9, AJ10, AA19, AC25, AB30 and AF32 were cited in search reports in the corresponding foreign applications of the above-referenced co-owned related patents.

Documents AK9, AC17, AD36 and AD40 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/21359, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AM10, AJ11, AK11 and AE40 were listed in a communication issued by the International Preliminary Examination Authority in PCT application serial number PCT/US00/01108, filed January 19, 2000, entitled "Frequency Translation and Embodiments Thereof Such as the Family Radio Service," directed to related subject matter.

Documents AI7, AJ9, AK9, AG20, AG21, AB30 and AI43 were listed in a written opinion issued by the International Preliminary Examination Authority in PCT application serial number PCT/US00/23923, filed October 18, 1999, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AA44, AL11, AM11 and AQ50 were listed in a communication issued by the International Searching Authority in PCT application serial number PCT/US00/09911, filed April 14, 2000, entitled "Method And System For Down-converting an Electromagnetic Signal, And Transforms For Same," directed to related subject matter.

Documents AB44 and AC44 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter.

Documents AD44-AI44 and AA45-AD45 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/261,129, filed March 3, 1999, entitled "Applications of Universal Frequency Translation," directed to related subject matter.

Documents AE45, AF45, AJ12 and AK12 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/27555, filed October 6, 2000, entitled "DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AG45, AH45, AL12 and AM12 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/34771, filed January 21, 2000, entitled "Phase Comparator Using Undersampling," directed to related subject matter.

Documents AI45, AJ13-AL13 and AB46 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/27281, filed October 4, 2000, entitled "Frequency Converter and Method," directed to related subject matter.

Document AA46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,580, filed April 16, 1999, entitled "Method and System for Frequency Up-Conversion with a Variety of Transmitted Configurations," directed to related subject matter.

Document AC46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/670,831, filed September 28, 2000, entitled "Universal Frequency Translation, Embodiments Thereof, and a Web Site and Web Pages Directed to Same," directed to related subject matter.

Document AD46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,095, filed April 16, 1999, entitled "Method and System for Down-Converting an Electromagnetic Signal Having Optimized Switch Structures," directed to related subject matter.

Documents AD35, AE46-AI46 and AA47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter.

Documents AJ1, AK9-AM9, AG28, AB30, AA32, AN52 and AP55 were cited in an Examination Report in co-pending European Patent Application Serial No. 99954905.8, filed October 18, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AM13, AJ14, AK14 and AQ51 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,765, filed June 21, 2000, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AL14, AM14, AJ15 and AK15 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,761, filed June 20, 2000, entitled "Method and System for Frequency Up-conversion," directed to related subject matter.

Documents AL15, AM15, AJ16-AM16 and AJ17-AM17 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,764, filed June 21, 2000, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AJ18-AL18, AB47, AC47 and AE47-AG47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/489,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter.

Documents AC24 and AD47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/376,509, filed August 18, 1999, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AH47, AI47, AA48-AE48 and AB49 are co-owned patents which are directed to related subject matter.

Documents AI43, AH47 and AH48 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,283, filed April 16, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AA38 and AG48 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,091, filed January 3, 2000, entitled "Image-Reject Down-Converter and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AK19 and AF48 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US01/15111, filed October 5, 2001, entitled "Method and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AI48 and AA49 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/567,963, filed May 10, 2000, entitled "Frequency Synthesizer Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AL13, AM18, AJ19 and AI45 were cited in an International Search Report in PCT Application Serial No. PCT/US00/31659, filed November 20, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter.

Document AC49 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/689,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter.

Documents AD49-AI49 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Document AA50 is a copy of co-pending U.S. Patent Application Serial No. 09/525,615, filed March 14, 2000, entitled "Method, System and Apparatus for Balanced Frequency Up-Conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. In the copy provided, the claims are shown as amended on June 6, 2001.

Document AB50 is a copy of co-pending U.S. Patent Application Serial No. 10/086,367, filed March 4, 2002, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. In the copy provided, the claims are shown as amended on May 20, 2002.

It is noted that some of these documents could be classified in more than one of the above categories.

The other documents in the PTO-1449 do not fall within the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.
- □ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on

the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

- □ a. I hereby state that each item of information contained in this Information

  Disclosure Statement was cited in a communication from a foreign

  patent office in a counterpart foreign application not more than three

  months prior to the filing of this Information Disclosure Statement.

  37 C.F.R. § 1.97(e)(1).
- □ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ c. Attached is our check no.\_\_\_\_ in the amount of \_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- □ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. A separate Petition to the Group Director, requesting consideration of this Information Disclosure Statement, is concurrently submitted herewith, along with our Check No.

  \_\_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(i).
  - □ a. I hereby state that each item of information contained in this Information

    Disclosure Statement was cited in a communication from a foreign

    patent office in a counterpart foreign application not more than three

    months prior to the filing of this Information Disclosure Statement.

    37 C.F.R. § 1.97(e)(1).
  - □ b. I hereby state that no item of information in this Information Disclosure

    Statement was cited in a communication from a foreign patent office
    in a counterpart foreign application and, to my knowledge after
    making reasonable inquiry, was known to any individual designated

- in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 4. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- - Document AJ1 (DE 42 37 692 C1) appears to be a receiver for a digital radio signal. The corresponding U.S. Patent No. 5,493,721 is enclosed as document AG28 on the attached PTO-1449.
  - Document AK1 (EP 0 035 166 A1) appears to describe a digitized receiver. A copy of the English language abstract of document AK1 is enclosed as document AQ8 on the attached PTO-1449.
  - Document AJ6 (EP 0 785 635 A1) appears to describe a method and apparatus for frequency diversity transmission using a plurality of uncorrelated carriers. A copy of the English language abstract of document AJ6 is enclosed as document AP8 on the attached PTO-1449.
  - Document AK7 (FR 2 743 231 A1) is the corresponding French application of document AJ6 (EP 0 785 635 A1), which is described above.
  - Document AJ8 (JP 2-39632) appears to describe a transmitter for frequency diversity. A copy of the English language abstract of document AJ8 is enclosed as document AO8 on the attached PTO-1449.
  - Document AK8 (JP 2-131629) appears to describe a transmitter-receiver for frequency diversity. A copy of the English language abstract of document AK8 is enclosed as document AN8 on the attached PTO-1449.

- Document AL8 (JP 2-276351) appears to describe an FSK demodulating circuit. A copy of the English language abstract of document AL8 is enclosed as document AR7 on the attached PTO-1449.
- Document AK11 (FR 2245130) appears to describe a converter. A partial English language translation of document AK11 is enclosed as document AP50 on the attached PTO-1449.
- Document AL11 (DE 3541031) appears to describe a method and device for demodulating high-frequency modulated signals. An English translation of document AL11 is enclosed as document AR50 on the attached PTO-1449.
- Document AM11 (EP 0 732 803) appears to describe a procedure and device for demodulation by sampling. An English translation of document AM11 is enclosed as document AN51 on the attached PTO-1449.
- Document AJ12 (DE 19735798) appears to describe a transceiver. An English translation of document AJ12 is enclosed as document AP51 on the attached PTO-1449.
- Document AM13 (JP 56-114451) appears to describe a system for diversity radio transmission. The corresponding U.S. Patent No. 4,363,132 is enclosed as document AF8 on the attached PTO-1449.
- Document AJ14 (JP 8-32556) appears to describe a data transmitter-receiver. A copy of the English language abstract of document AJ14 is enclosed as document AO52 on the attached PTO-1449.
- Document AK14 (JP 8-139524) appears to describe a frequency converting circuit and radio communication device. A copy of the English language abstract of document AK14 is enclosed as document AP52 on the attached PTO-1449.
- Document AL14 (JP 59-144249) appears to describe a pulse signal transmission system. A copy of the English language abstract of document AL14 is enclosed as document AQ52 on the attached PTO-1449.
- Document AM14 (JP 63-54002) appears to describe a microwave burst signal generator which incorporates a FET frequency multiplier. A copy of the

- English language abstract of document AM14 is enclosed as document AR52 on the attached PTO-1449.
- Document AJ15 (JP 6-237276) appears to describe a quadrature modulator. A copy of the English language abstract of document AJ15 is enclosed as document AN53 on the attached PTO-1449.
- Document AK15 (JP 8-23359) appears to describe a digital quadrature modulation device. A copy of the English language abstract of document AK15 is enclosed as document AO53 on the attached PTO-1449.
- Document AL15 (JP 47-2314) appears to describe a demodulator. An English language translation of document AL15 is enclosed as document AP53 on the attached PTO-1449.
- Document AM15 (JP 58-7903) appears to describe a switched capacitor modulator.

  A partial English language translation of document AM15 is enclosed as document AQ53 on the attached PTO-1449.
- Document AJ16 (JP 58-133004) appears to describe an amplitude detector. A copy of the English language abstract of document AJ16 is enclosed as document AR53 on the attached PTO-1449.
- Document AK16 (JP 60-58705) appears to describe a frequency converting circuit.

  A copy of the English language abstract of document AK16 is enclosed as document AN54 on the attached PTO-1449.
- Document AL16 (JP 4-123614) appears to describe a level converting circuit. A copy of the English language abstract of document AL16 is enclosed as document AO54 on the attached PTO-1449.
- Document AM16 (JP 4-127601) appears to describe a frequency conversion circuit.

  A copy of the English language abstract of document AM16 is enclosed as document AP54 on the attached PTO-1449.
- Document AJ17 (JP 5-175730) appears to describe a time division direct receiver.

  A copy of the English language abstract of document AJ17 is enclosed as document AQ54 on the attached PTO-1449.

- Document AK17 (JP 5-175734) appears to describe an FM demodulator. A copy of the English language abstract of document AK17 is enclosed as document AR54 on the attached PTO-1449.
- Document AL17 (JP 7-154344) appears to describe a receiver for receiving modulated carrier signals and an IQ mixer/demodulator using it's receiving constitution. A copy of the English language abstract of document AL17 is enclosed as document AN55 on the attached PTO-1449.
- Document AM17 (JP 7-307620) appears to describe a bottom detection circuit. A copy of the English language abstract of document AM17 is enclosed as document AO55 on the attached PTO-1449.
- Document AJ18 (JP 55-66057) appears to describe a bar-code detection circuit. A copy of the English language abstract of document AJ18 is enclosed as document AQ55 on the attached PTO-1449.
- Document AK18 (JP 63-65587) appears to describe a wireless light pen device. A copy of the English language abstract of document AK18 is enclosed as document AR55 on the attached PTO-1449.
- Document AL18 (JP 63-153691) appears to describe a data transfer for a semiconductor data carrier system. A copy of the English language abstract of document AL18 is enclosed as document AN56 on the attached PTO-1449.
- Document AQ50 (Fest *et al.*) appears to discuss analog-digital converters. An English translation of document AQ50 is enclosed as document AO51 on the attached PTO-1449.
- Document AQ51 (Miki *et al.*) appears to describe modulation systems. A partial English-language translation of document AQ51 is enclosed as document AR51 on the attached PTO-1449.

□ 6.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C.
	§ 120. Thus, copies of these documents are not attached. 37 C.F.R.
	§ 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

ERME KESSLER, GOLDSTEIN & FOX P.L.L.C.

Attorney for Applicants Registration No. 35,239

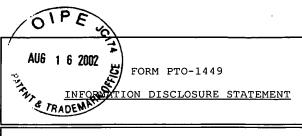
1100 New York Avenue, N.W.

Suite 600

Washington, D.C. 20005-3934

(202) 371-2600

SKGF\_DC1:44556.1



ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP 2681

						Ma	y 16, 2001		2681			
					U.S. P.	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE	
	AA1	2,05	7,613	10/1	936	Gard	ner		250	8		
	AB1	2,24	1,078	05/19	941	Vree	land		179	15		
	AC1	2,27	0,385	01/19	942	Skillr	man RECE	EIVE	79	15	]	
-	AD1	2,28	3,575	05/19	942	Robe	erts	_	250	6		
	AE1	2,35	8,152	09/19	944	Earp	AUG 2	0 20	JUK <sub>179</sub>	171.5		
	AF1	2,41	0,350	10/19	946	Labin et al. Technology C			_ 179	15		
	AG1	2,45	1,430	10/19	948	Labin et al. Technology Cent			250	8		
	AH1	2,46	2,069	02/19	949	Chat	terjea <i>et al</i> .		250	17		
	Al1	2,46	2,181	02/1949			selfinger		250	17		
					FOREIGN	PAT	ENT DOCUMENTS					
EXAMINER												
INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
	AJ1	DE 4	42 37 692 C1	-	03/1994		DE		H04B	1/26	No	
	AK1	EP (	035 166 A1		09/1981		EP		H04B	1/26	No	
	AL1	EP (	) 193 899 B1		06/1990		EP		G01S	7/52	N/A	
	AM1	EP (	380 351 A2		08/1990		EP		нозн	17/04	N/A	
			OTHE	etc )	1							
	AN	1	Aghvami, H. o Fourth Interna 153 (October	ational	Conference	Satel on Sa	lites Using the Highly E tellite Systems for Mob	lliptic	Orbits- The U	K T-SAT Mot and Navigat	pile Payload," <i>ion</i> , IEE, pp. 147-	
	AO	1	Akers, N.P. e 49 (January 1		RF Sampling	Gate:	s: a Brief Review," <i>IEE i</i>	Proce	edings, IEE, V	/ol. 133, Part	A, No. 1, pp. 45-	
	АР	1		or CEF	RS and T-SA	T," <i>Ele</i>	quency Correction for a ectronics Division Collod					
Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communicates, No. 3, pp. 309-313 (March 1998).											ions, IEEE, Vol.	
	AR	Allan, D.W., "Statistics of Atomic Frequency Standards," <i>Proceedings Of The IEEE Special Issue on Freque Stability</i> , IEEE, pp. 221-230 (February 1966).										
EXAMINER	1,	<u> </u>	<u> </u>		_				DATE CONS	SIDERED		

AU6 1 6 2002 TRADE RMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

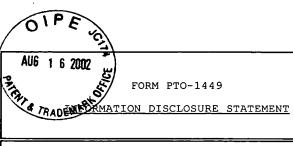
Sorrells <u>et al</u>.

FILING DATE

GROUP

			2681	·								
					U.S. P.	ATEN	T DOCUMENTS					
EXAMINER NITIAL			CUMENT IBER	DATI	E	NAM	IE	CLASS	SUB- CLASS	FILING DATE		
-	AA2	2,47	2,798	06/19	949	Fred	endall	178	44			
	AB2	2,49	7,859	02/19	950	Boug	htwood et al.	250	8			
	AC2	2,49	9,279	02/19	950	Pete	rson	332	41	RECEIV		
	AD2	+	2,208	08/19		Hobb	os	343	176	AUG 2 0		
	AE2	+	5,875	05/19	961	Griso	dale <i>et al.</i>	343	100	AUG & U		
	AF2		3,309	02/19		Foull		250	17	echnology Cen		
	AG2	+ -	9,679	<del>                                      </del>			eney <i>et al.</i>	343	200	3, 55		
	AH2		4,393	09/19	,	— <u> </u>	elman	343	200			
	AI2	3,11	4,106	12/19	963	McM	anus	325	56			
	<del></del>	1		FOREIGN			ENT DOCUMENTS			<u>_</u>		
CLASS										TRANSLATION		
							EP	H03H	17/04	N/A		
	AK2 EP 0 411 840 A2						EP	G01R	33/36	N/A		
	AL2 EP 0 411 840 A3						EP	G01R	33/36	N/A		
	AM2	EP 0	411 840 B1		10/1995		EP	G01R	33/36	N/A		
			ОТНЕ	R (Inc	luding Autl	hor, T	itle, Date, Pertinent Pag	es, etc.)				
	AN	<u>2</u>	Allstot, D.J. e SC-13, No. 6				pacitor Ladder Filters," <i>IE</i> r 1978).	EE Journal of So	lid-State Circ	uits, IEEE, Vol.		
	AO	2	Allstot, D.J. a Filtering Syst	ind Bla ems,"	ck Jr. W.C., Proceedings	"Tech	nnological Design Conside <i>e IEEE</i> , IEEE, Vol. 71, No.	erations for Monol . 8, pp. 967-986 (.	ithic MOS Sv August 1983)	witched-Capacitor ).		
	AP	<u>2</u>	Alouini, M. et	al., "C Of the	hannel Char IEEE, IEEE,	racteri. , Vol. 8	zation and Modeling for K 35, No. 6, pp. 981-997 (Ju	a-Band Very Sma une 1997).	all Aperture T	erminals,"		
Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, V 43, No. 12, pp. 87-90 (December 1988).												
	AR	2	Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," Optics Communications, North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).									
EXAMINER		<u></u>	<u> </u>					DATE CON	SIDERED			

OIPE	vc.										Page 3 of 56
AU6 1 6 200	2 =				· · · · · · · · · · · · · · · · · · ·		TY. DOCKET NO.			CATION NO	
TRADE TRADE	S S S S S S S S S S S S S S S S S S S		PTO-1449 SCLOSURE STA	menare:	NG	AP	44.1260001 PLICANT rrells et al.		09/85	55,851	
PRADEMA	PMMAIIC	N DIS	SCLOSURE SIA	I EME	<u>IN I</u>		LING DATE y 16, 2001		GROUP 2681	•	
					U.S. P.		T DOCUMENTS		2001		
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
	AA3	3,11	18,117	01/19	964	King	et al.	33:	2	22	<del></del> -
	AB3	3,22	26,643	12/19	965	McN	air	32	5	40	
	AC3	3,25	8,694	06/19	966	Shep	herd	32	5	145	
	AD3	3,38	33,598	05/19	968	Sand	ers	32	5	163 <b>HE</b> (	EIVED
	AE3	<del></del>	34,822	05/19	968	Miya	gi	32	5	30	2 (1 2000
	AF3		54,718	07/19		Perre		178			2 0 2002
	AG3		23,291	08/19		Pierr	<del></del>	340		Technology	Center 2600
	AH3		18,342	12/19		Maxe	<u> </u>	333			ounter 2000
	AI3	3,55	55,428	01/19		Perre		32	5	320	
	1	<del></del>			FOREIGN	PATI	ENT DOCUMENTS	<u> </u>	<del></del>	T	Γ"
EXAMINER INITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ3	EP (	0 423 718 A2		04/1991		EP	но	4N	7/01	N/A
	AK3	EP (	0 423 718 A3		08/1992		EP	НО	4N	7/01	N/A
	AL3	EP (	0 486 095 A1		05/1992		EP	но	3D	3/00	N/A
	AM3	EP (	0 486 095 B1		02/1997		EP	HO	3D	3/00	N/A
			OTHE	R (Inc	cluding Auti	nor, Ti	tle, Date, Pertinent P	ages, etc.)			
	AN	<u>3</u>					the Telecommunications and				
·	AO	<u>3</u>	Auston, D.H., Institute of Ph	"Pico: ysics,	second optoo Vol. 26, No.	electro 3, pp.	nic switching and gatir 101-103 (February 1,	ng in silicon," 1975).	Applied	Physics Lette	ers, American
	AP	<u>3</u>	Baher, H., "Tr and Systems,	ansfei IEEE	r Functions fo Circuits and	or Swi Syste	tched-Capacitor and W ms Society, Vol. CAS-	Vave Digital F 33, No. 11, p	ilters," <i>II</i> p. 1138-	EEE Transact 1142 (Novem	tions on Circuits ber 1986).
	AQ	<u>3</u>	Baines, R., "T (May 1995).	he DS	SP Bottleneck	<," <i>IEE</i>	E Communications Ma	agazine, IEEE	E Commi	unications So	ciety, pp. 46-54
	AR	<u>3</u>	Banjo, O.P. a Electronics Le	nd Vila etters,	ar, E., "Binan IEE, Vol. 21	y Erroi , No. 7	Probabilities on Earth , pp. 296-297 (March 2	n-Space Links 28, 1985).	Subject	to Scintillatio	n Fading,"
EXAMINER	1	L						DATE	CONSI	IDERED	



ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001

GROUP 2681

					May 16, 2001 2681							
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	1E		CLASS	SUB- CLASS	FILING DATE	
	AA4	3,61	17,892	11/1	971	Haw	ley et al.		325	145		
	AB4	3,62	21,402	11/1	971	Gard	Iner		328	37		
	AC4	3,62	23,160	11/19	971	Giles	s et al.		340	347 DA		
	AD4	3,62	26,417	12/19	971	Gilbe	ert		343	203REC	EIVED	
	AE4	3,62	29,696	12/19	971	Barte	elink		324	57 R	LIVED	
	AF4	3,66	32,268	05/19	972	Gans et al.			325	56 AUG	2 0 2002	
	AG4	3,68	9,841	09/1972		Bello et al.			325	39		
	AH4	3,71	4,577	01/19	973	Hayes			325	Teestinology	Center 2600	
	Al4	3,71	7,844	844 02/1973			et <i>et al.</i>		340	5 R		
			_	FOREIGN	N PAT	ENT DOCUMENTS						
EXAMINER INITIAL							COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
	AJ4 EP 0 512 748 A2						EP		H04N	9/64	N/A	
	AK4	EP (	0 512 748 A3		07/1993		EP		H04N	9/64	N/	
	AL4 EP 0 512 748 B1						EP		H04N	9/64	N/A	
<del>-</del> ·	AM4 EP 0		548 542 A1	-	06/1993		EP		H03B	19/14	N/A	
			07:11	- D (1)			I itle, Date, Pertinent Pa		<del></del>			
	AO	4	Parameters," pp. 277-280 ( Banjo, O.P. a Paths and Im	Fifth I March nd Vila pact o	nternational 30 - April 2, ar, E. "Measi n Communio	Confe 1987 ureme	nt and Modeling of Amp Systems," IEEE Transac	Propag	gation (ICAP	87) Part 2: Pro	opagation, IEE,	
	Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).  Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths,"  Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).											
	AQ	4	Basili,P. et al. and Propagat	sili,P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas d Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).								
	AR	Basili, P. et al., "Observation of High C <sup>2</sup> and Turbulent Path Length on OTS Space-Earth Link," <i>Electronic Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).									Electronics	
EXAMINER		· · ·						ı	DATE CONS	SIDERED		



MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

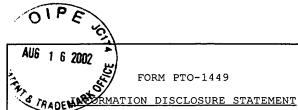
FILING DATE GROUP 2681

DATE CONSIDERED

						Ma	y 16, 20	001		2681		
					U.S. P.	ATEN	r DOCUM	ENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E			CLASS	SUB- CLASS	FILING DATE
-	AA5	3,73	5,048	05/19	973	Toms	sa et al.			179	15 BM	
	AB5	3,80	6,811	04/19	974	Thorr	npson			325	146	
	AC5	3,86	8,601	02/19	975	MacA	Afee	_		332	45	
	AD5	3,94	9,300	04/19	976	Sadle	er	MED	<u>.</u>	325	31	
	AE5	3,96	7,202	06/1976		Batz		11.	Slin	325	31	
	AF5	3,98	0,945	09/19	976 Bickf		Bickford 2		<u> </u>	325	30	
	AG5	3,98	7,280	10/19	976	Baue	סמליטי	<u>'a</u>	2002	235	150.53	
	AH5	3,99	1,277	11/19	976	MacAfee  Sadler  Batz  Bickford  Bauer  Hirata  Snijders et al.			<del>- +0/-</del>	179	15 FD	
	AI5	4,00	3,002	01/19	977	Sniiders et al.				332	10	
<del>-</del>	<u> </u>				FOREIGN	I PATE	NT DOC	JMENTS	100			
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY			CLASS	SUB- CLASS	TRANSLATION
	AJ5	EP (	632 288 A2		01/1995		EP			G01S	13/75	N/A
	AK5	EP (	632 288 A3		07/1996		EP		G01S	13/75	N/	
	AL5	AL5 EP 0 696 854 A1			02/1996		EP	EP		H04B	1/26	N/
	AM5	EP (	782 275 A2		07/1997		EP			Н04В	7/02	N/A
			OTHE	R (Inc	cluding Auti	hor. Ti	tle. Date.	Pertinent	Pages, etc	:.)	•	<u> </u>
	AO	<u>5</u>	Blakey, J.R. 6 Region," <i>Elec</i> Burgueño, A. communicatio (September/0	et al.,	"Influence o	E, Vol.	21, No. 1	gration tim	487 (May 2	3, 1985).	stics used in	microwave
Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensional Application to Microwave Communications," Fifth International Conference on A 87) Part 2: Propagation, IEE, pp. 198-201 (March 30 - April 2, 1987).												
	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods i Communications," Sixth International Conference on Antennas and Propagation IEE, pp. 297-301 (April 4-7, 1989).											
	AR	Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).										
			<u> </u>									

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**EXAMINER** 



ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

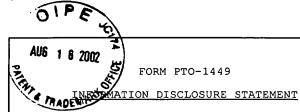
APPLICANT

Sorrells et al.

FILING DATE Mav 16, 2001 GROUP 2681

						Ma	y 16, 2001		2681					
					U.S. P.	ATEN	DOCUMENTS							
EXAMINER INITIAL			CUMENT IBER	DATI	Ξ	NAM	E		CLASS	SUB- CLASS	FILING DATE			
	AA6	4,01	3,966	03/19	977	Cam	obell		325	363				
	AB6	4,01	9,140	04/19	977	Swei	dlow		322	65				
	AC6	4,03	5,732	07/19	977	Lohr	mann 🛌		325	446				
	AD6	4,04	7,121	09/19	977	Cam		CC <sub>C</sub>	331	76				
	AE6	4,06	6,841	01/19	978	Your	g An	G 2 0	331	66 R				
	AF6	4,06	6,919	01/19	978	Hunt	ngton Fechnolog elian et al. Gerwen et al.	62 <sub>0</sub>	307	353				
	AG6	4,08	1,748	03/19	78	Batz	"GCHNOINS		(UQ25	56				
	AH6	4,13	0,765	12/19	978	Arak	elian <i>et al.</i>	V Center	307	220 R				
	Al6	4,13	0,806	12/19	978	Van	Gerwen <i>et al.</i>	•07	<6 <sub>625</sub>	487				
			· · · ·	•	FOREIGN	PATI	NT DOCUMENTS							
EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION			
	AJ6 EP 0 785 635 A1						EP		H04B	1/713	No			
	AK6	EP 0	795 978 A2		09/1997		EP		H04L	5/06	N/A			
	AL6	EP 0	837 565 A1		04/1998.	EP			Н04В	1/69	N/A			
	AM6	EP 0	862 274 A1		09/1998	EP			нозм	1/06	N/A			
	<u>l</u> .	<u> </u>	OTU	HER (Including Author, Title, Date, Pertinent Pages, etc.)										
	AN	<u>6</u>	Catalan, C. a No. 12, pp. 1				or satellite slant path ).	remote s	ensing," <i>Elec</i>	tronics Letter	rs, IEE, Vol. 34,			
	AO	<u>6</u>					z CMOS Downconve ciety, pp. 210-213 (S				Circuits			
	AP	<u>6</u>	Copy of Decl related subje				man filed in patent ap	pplication	Ser. <b>N</b> o. 09/	176,022, whic	ch is directed to			
	AQ 6 Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.													
	AR	<u>6</u>	Copy of Decl subject matte			tz filed	in patent application	Ser. No.	09/176,022,	which is dire	cted to related			
EXAMINER			<u>.</u>						DATE CONS	SIDERED				

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001 GROUP 2681

						Ma	y 16, 2001	2681		
					U.S. P.	ATEN	T DOCUMENTS			
EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA7	4,14	2,155	02/19	979	Adad	hi	325	47	
	AB7	4,17	0,764	10/19	979	Salz	et al.	332	17	
	AC7	4,20	4,171	05/19	980	Sutp	hin, Jr.	328	167	
	AD7	4,21	0,872	07/19	980	Greg	orian	330	9	
	AE7	4,24	5,355	01/19	981	Pasc	oe et al. RECEIVED	455	326	
	AF7	4,25	3,066	02/19	981 Fishe 981 Noss		er et al.	329	50	
	AG7	4,25	3,069	02/19				330	107	
	AH7	4,30	8,614	12/19	981	Fisher et electrology Center 260		370	119	
	AI7	4,32	0,361	03/19	982	Kikke	ert 1000gy Center 2600	332	16 R	
					FOREIGN		ENT DOCUMENTS			
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ7 EP 0 874 499 A2						EP	H04L	25/06	N/A
	AK7 FR 2 743 231 A1					FR		H04B	7/12	N
	AL7	GB :	2 161 344 A		01/1986		GB	H04B	7/12	N//
	AM7 GB 2		2 215 945 A 09/1989				GB	H04L	27/00	N//
	_1	_	OTHE	R (Inc	luding Auth	hor. Ti	itle, Date, Pertinent Pages, etc	<u>.</u> )		
	AN	7	Copy of Declarelated subject				ke filed in patent application Se	r. <b>N</b> o. 09/17	76,022, which	is directed to
	AO	<u>7</u>	Copy of Declarelated subject	aration ct matt	of Charley I er, 2 pages.	D. Mos	ses, Jr. filed in patent application	n Ser. No. (	09/176,022, w	hich is directed to
	АР	7	Copy of Deck application Se	aration er. No.	of Jeffrey L. 09/176,022,	. Parke , which	er and David F. Sorrells, with at n is directed to related subject n	tachment E natter, 130 <sub>l</sub>	xhibit 1, filed pages.	in patent
	AQ	Z					lode Radio Receiver," <i>Electroni</i> (October 18, 1985).	cs Division	Colloquium o	n Digitally
	AR	<u>7</u>	DIALOG File Date of public	347 (J.	-276351, 1	page (Novem	ber 13, 1990 -			
EXAMINER	1	<u> </u>	<u> </u>		<del>-, _</del>			DATE CONS	SIDERED	

RMATION DISCLOSURE STATEMENT

FORM PTO-1449

1744.1260001 APPLICANT

ATTY. DOCKET NO.

APPLICATION NO. 09/855,851

Sorrells et al.

FILING DATE

GROUP

HADEMA					FILING DATE GROUP May 16, 2001 2681						
· · · · · · · · · · · · · · · · · · ·	<del></del>	<del>''</del>	<u></u>		U.S. P		T DOCU				
EXAMINER INITIAL			CUMENT MBER	DAT		NAM			CLASS	SUB- CLASS	FILING DATE
	AA8	4,32	20,536	03/19	982	Dietr	ich		455	325	
-	AB8	4,34	16,477	08/19	982	Gord	 У		455	257	
	AC8	T)	55,401	10/19	982	i e	a et al.		375	5	
	AD8	4.35	6,558	10/19	982	Owe	n et al.		364	724	
	AE8	4.36	50,867	11/19	982	Gond	la	חרם-	363	158	
	AF8	4.36	53,132	12/19	982	Colli	1	RECEIVED	455	52	
	AG8	1	55,217	12/19	982	Berger et al. ALIC 2 0 0000			333	165	
	AH8		0,572	01/19		1	nd et al.	AUG 2 0 2002	307	353	
	Al8	<del>-  </del>	9,579	06/19		Stein	Tech	nology Center 20	307	353	
	170	1 .,00	,	00			ENT DO	CUMENTS	00		
EXAMINER			OLIMATAIT AUGAG						CLASS	CUP	TRANCI ATION
INITIAL		DOC	CUMENT NUM	BER	DATE		COUNT	IRY	CLASS	SUB- CLASS	TRANSLATION
	AJ8	JP 2	2-39632		02/1990		JP		H04B	7/12	No
	AK8	JP 2	2-131629		05/1990		JP		H04B	7/12	No
	AL8	JP 2	2-276351		11/1990		JP		H04L	27/22	No
	AM8	wo	80/01633 A1		08/1980	PCT			H04J	1/08	N/A
			ОТНЕ	R (Inc	luding Auti	hor, T	tle, Date	, Pertinent Pages,	etc.)	!	·
	AN	<u>8</u>	DIALOG File publication of			sh Lar	guage P	atent Abstract for JP	2-131629, 1	page (May 2	1, 1990 - Date of
	AO	<u>8</u>	DIALOG File publication of			sh Lar	guage P	atent Abstract for JP	2-39632, 1 p	age (Februar	y 8, 1990 - Date of
	АР	<u>8</u>	DIALOG File (December 2	348 (E 6, 199	European Pa 6 - Date of p	tents) ublicat	English <b>l</b> ion of ap	anguage Patent Absplication).	stract for EP (	) 785 635 A1	, 3 pages
	AQ	<u>8</u>	DIALOG File 18, 1981 - Da	348 (E	European Pa publication of	tents) f applic	English l ation).	anguage Patent Abs	stract for EP 3	35166 A1, 2 p	ages (February
	AR	<u>8</u>	"DSO takes s 77 and 79 (M			3hz," <i>E</i>	Electronic	: <i>Engineering</i> , Morga	ın Grampian I	Publishers, V	ol. 59, No. 723, pp.
EXAMINER	_L	<u> </u>	<u> </u>					<del></del>	DATE CON	SIDERED	



MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1260001

APPLICATION NO.

09/855,851

APPLICANT
Sorrells et al.

FILING DATE

GROUP

MADEMI							LING y 16,	DATE 2001				2681	2	
					U.S. P	ATEN	T DOC	UMEN	TS			<del>-</del>		
EXAMINER INITIAL			CUMENT MBER	DATI	Ē	NAM	E					CLASS	SUB- CLASS	FILING DATE
	AA9	4,39	2,255	07/19	983	Del C	iudice					455	328	
	AB9	4,43	0,629	02/19	984	Betzl	et al.					333	165	
	AC9	4,44	6,438	05/19	984	Char	g et al					328	127	
	AD9	4,45	6,990	06/19	984	Fishe	er et al.					370	119	
	AE9	4,47	2,785	09/19	984	Kasu	ga	RE(	CE	IVE	<b>)</b>	364	718	
	AF9	4,47	9,226	10/19	984	Prab	nu <i>et a</i>	<i>I</i> .				375	1	_
	AG9	4,48	1,490	11/19	984	Hunt	еу	AUG	2	0 2002	12	332	41	
	AH9	4,48	1,642	11/19	984	Hanson Technology Center 2600				375	9			
	AI9	4,48	5,488	11/19	984	Houd	art	molog	Jy C	enter 2	600	455	327	
:					FOREIGN									
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		cou	NTRY				CLASS	SUB- CLASS	TRANSLATIO
	AJ9	wo	94/05087 A1		03/1994		PCT			-		H03M	1/00	N/
	AK9	wo	96/02977 A1		02/1996		PCT					H04B	1/26	N/
	AL9	wo	96/08078 A1		03/1996	PCT				H03D	3/00	N/		
	AM9	wo	96/39750 A1		12/1996		PCT					H04B	1/26	N/
			OTHE	R (Inc	luding Auth	ıor, Ti	tle, Da	te, Per	tine	nt Page	s, etc	:.)		
	AN	9	Erdi, G. and F Ratio," <i>IEEE</i> 、											
	AO	<u>9</u>		EEE T										oility of Microwave I, pp. 208-213
	АР	9	Faulkner, N.D Microwave Os M-10 and M-1	scillato	rs," CPEM 8	ionic S 32 <i>Dige</i>	amplir est: Co	g for th	ne Ad	ccurate I	Measi on Ele	urement of l	Frequency S tic Measure	tability of ments, IEEE, pp.
	AQ	9	Faulkner, N.D Techniques," (1984).											ead-Time Counte E, pp. 81-82
	AR	<u>9</u>	Amplitude Sci	ip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of nplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications ociety, Vol. 38, No. 11, pp. 1958-1965 (November 1990).										
EXAMINER			<u>l,</u>								D	ATE CONS	IDERED	

AUG 1 6 2002 FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT
PRADENIA

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

MADE	<u> </u>						y 16, 2001	2681		
		<u>.</u>			U.S. P.	ATEN	T DOCUMENTS			
EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	IE	CLASS	SUB- CLASS	FILING DATE
	AA10	4,50	04,803	03/19	985	Lee	et al.	332	31 R	
	AB10	4,51	17,519	05/19	985	Muka	aiyama	329	126	
	AC10	4,51	17,520	05/19	985	Ogav	wa	329	145	
	AD10	4,51	18,935	05/19	985	van I	RoermundRECEIVED	333	173	
	AE10	4,52	21,892	06/19	985	Vano	ce et al.	375	88	
	AF10	4,56	63,773	07/19	986	Dixo	n, Jr. et al. AUG 2 0 2002	455	327	
	AG10	4,57	77,157	03/19	986	Reed		329	50	
	AH10	4,58	33,239	04/1986		Vano	e Technology Center 26	00375	94	
	Al10	4,59	91,736	05/19	986	Hirac	et al.	307	267	
					FOREIGN	PAT	ENT DOCUMENTS			
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ10	wo	97/38490 A1		10/1997		PCT	нозк	7/00	N/A
	AK10	wo	98/00953 A1		01/1998		PCT	H04L	27/26	N/A
	AL10	wo	98/24201 A1		06/1998		PCT	H04H	1/00	N/A
	AM10	EP (	0 099 265 A1	01/1984 EP			H03D	3/04	N/A	
	<u> </u>		ОТНЕ	R (Inc	luding Autl	hor, T	itle, Date, Pertinent Pages, e	etc.)		<del>'</del>
	AN	<u>10</u>					Signaling Filter with Q Reduct (December 1984).	ion," <i>IEEE Jo</i>	ournal of Solid	I-State Circuits,
	AO	<u>10</u>					me statistics of rain attenuatio on, IEE, Vol. 135, Pt. H, No. 6			
	АР	<u>10</u>	Gibbins, C.J. Vol. 134, Pt.	and C H, No.:	hadha, R., "I 2 , pp. 169-1	Millime 73 (Ap	etre-wave propagation through oril 1987).	hydrocarbor	ı flame," <i>IEE</i>	Proceedings, IEE,
	AQ	<u>10</u>	Gilchrist, B. e Publishing, V	<i>t al.</i> , "; ol. 23,	Sampling hik No. 1, pp. 9	kes pe 3-94 a	rformance of frequency synthe nd 110 (January 1984).	esizers," <i>Micr</i>	owaves & RF	, Hayden
	AR	<u>10</u>	Gossard, E.E Science, Ame	., "Cle erican	ar weather n Geophysical	neteor Unior	ological effects on propagation, Vol. 16, No. 5, pp. 589-608	n at frequenci (September -	ies above 1 C October 198	Shz," <i>Radio</i> 1).
EXAMINER			<u></u>		· · · · · · · · · · · · · · · · · · ·			DATE CONS	SIDERED	

TADEMANT INFORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851 APPLICANT Sorrells et al. GROUP FILING DATE

							y 16, 20			2681		_			
			-		U.S. P	ATEN	T DOCUM	ENTS			<del></del>				
EXAMINER INITIAL			CUMENT MBER	DAT	Ē	NAM	E			CLASS	SUB- CLASS	FILING DATE			
	AA11	4,60	02,220	07/19	986	Kurit	ara			331	19				
	AB11	4,60	03,300	07/19	986	Well	es, II <i>et al</i> .		•	329	50				
	AC11	4,6	12,464	09/19	986	Ishik	awa <i>et al.</i>			307	496				
	AD11	4,6	12,518	09/19	986	Gans	et al.			332	21				
	AE11	4,61	16,191	10/19	986	6 Galani et al. RECEIVE			331	4					
· <del>-</del> ·	AF11	4,62	21,217	11/19	86 Saxe et al.			C 6/5	1						
	AG11	4,62	28,517	12/19				0.0 §75	40						
	AH11	4,63	34,998	01/19	987	Schwarz et al. AUG 2 0 200			331	1 A					
	Al11	4,64	18,021	03/1987		Alberkrack Technology Center		r 22632	157						
					FOREIGN	I PATI				. v.n.n.n					
EXAMINER			•												
INITIAL		DO	CUMENT NUM	BER	DATE		COUNTR	RY		CLASS	SUB- CLASS	TRANSLATION			
	AJ11	EP (	0 560 228 A1		09/1993	<u>.</u>	EP			H03D	7/12	N/A			
	AK11	FR:	2 245 130		04/1975		FR			H03K	5/13	Yes (See AP50)			
	AL11	DE	35 41 031 A1		05/1986	DE		H03D	3/00	Yes (See AR50)					
	AM11	EP	0 732 803 A1		09/1996		EP			H03D	3/00	Yes (See AN51)			
			ОТНЕ	OTHER (Including Author, Title, Date, Pertinent Pages, etc.)											
	AN	<u>11</u>	Gregorian, R. 941-966 (Aug			Capaci	tor Circuit	Design," <i>Pr</i>	oceedin	gs of the IEE	E, IEEE, Vol	. 71, No. 8, pp.			
	AO	<u>11</u>	Groshong et 67-68, 70, 73					mplify Digital	l Radio,	" Electronic L	<i>Design</i> , Pento	on Publishing, pp.			
	АР	<u>11</u>	Grove, W.M., Microwave Th								-Band," <i>IEEE</i>	Transactions on			
	AQ	<u>11</u>	Haddon, J. et Propagation,					cintillations	on a Sa	tellite Down-	Link at X-Bar	nd," <i>Antennas and</i>			
	AR	<u>11</u>	Haddon, J. ar Paths and the 34, No. 5, pp.	Influe	ence of Anter	nna Ap	nduced Mic perture," <i>IE</i>	crowave Sci EEE Transac	ntillatior	ns from Clear on Antennas a	· Air and Rair nd Propagati	on Earth Space on, IEEE, Vol. AP-			
EXAMINER			<u> </u>		<del></del>	<del></del>	· · · · · · ·			DATE CONS	SIDERED				

AU6 1 6 2002

FORM PTO-1449

MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851 APPLICANT Sorrells et al.

PADEMA	DIMATIO	N DIS	CLOSORE SIP	TEME	NI.				GROUP 2681		
	DOCUMENT   DATE   NAME   CLASS   SUB-CLASS   FILING DATE										
EXAMINER INITIAL				DATI	E	NAM	E	CL	ASS		FILING DATE
	AA12	4,65	51,034	03/19	987	Sato		307	,	556	
	AB12	4,67	75,882	06/19	987	Lillie	et al.	375	5	80	
	AC12	4,68	88,253	08/19	987	Gum	m	381		7	
_	AD12	4,71	6,376	12/19	987	Daud	delin RECEIVED	329	)	107	
	AE12	4,71	6,388	12/19	987	Jaco	bs ILOLIVED	333	3	173	
	AF12	4,71	8,113	01/19	988	Roth	er et al. AUG 2 0 2002	455	5	209	
	AG12	4,72	26,041	02/19	988	Proh	aska et al.			91	
	AH12	4,73	33,403	03/19	988	Simo	ne lechnology Center 26	00375	5	103	
	Al12	4,73	34,591	03/19	988	Ichits	subo	307	7	219.1	
					FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS		TRANSLATION
	AJ12	DE	197 35 798 C1		07/1998		DE	H04	4L	27/00	
	AK12	wo	98/40968 A2&	<b>43</b>	09/1998		PCT	H0:	3L	7/08	N/A
	AL12	EP (	0 529 836 A1		03/1993		EP	H0:	3L	7/089	N/A
	AM12	EP (	795 955 A2&A	<b>13</b>	09/1997		EP	Ho	3D	13/00	N/A
			ОТНЕ	R (Inc	luding Autl	hor, T	itle, Date, Pertinent Pages, e	tc.)			
	AN	<u>12</u>		et al.,	"2-4 Ghz ME	ESFET	Sampler," <i>Electronics Letters</i>	, IEE,	Vol. 24,	. <b>No. 3</b> , pp. 1	51-153 (February
	AO	<u>12</u>	Herben, M.H.	A.J., ". etters,	Amplitude ar IEE, Vol. 18	nd Pha , No. 7	ase Scintillation Measurements 7, pp. 287-289 (April 1, 1982).	on 8-	·2 km Li	ne-Of-Sight	Path at 30 Ghz,"
	AP	<u>12</u>									
	AQ	<u>12</u>	Measurement	ts," <i>IEI</i>	EE Transacti						
	AR	<u>12</u>		Tech	niques," <i>IEE</i>		ing on LOS Microwave Links: ( nsactions on Communications,				
EXAMINER			<u> </u>		·			DATE	CONSI	DERED	



MATION DISCLOSURE STATEMENT

APPLICATION NO. ATTY. DOCKET NO. 1744.1260001 09/855,851 APPLICANT Sorrells et al. FILING DATE GROUP

MAUC							y 16, 2001		2681		
					U.S. P.		T DOCUMENTS	<del></del>	<del></del>		
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA13	4,73	37,969	04/19	988	Stee	et al.		375	67	
	AB13	4,74	3,858	05/19	988	Ever	ard		330	10	
	AC13	4,74	5,463	05/19	988	Lu	RF	CEIVE	358	23	
	AD13	4,75	1,468	06/19	988	Agos			328	133	
	AE13	4,75	7,538	07/19	988	Zink	AU	<b>G 2 0</b> 200	7 381	7	
	AF13	4,76	8,187	08/1988		Mars	hall	-	370	69.1	
	AG13	4,76	9,612	09/1988		Tamakoshi et al. nology Center 26			<b>608</b> 28	167	
	AH13	4,78	5,463	11/19	988	Janc et al.			375	1	
	AI13	4,79	1,584	12/19	988	Gret	renkamp, Jr.		364	525	
	<u>. '</u>			_	FOREIGN	•	ENT DOCUMEN	ITS	•		
EXAMINER NITIAL		DOG	CUMENT NUME	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
	AJ13	EP (	817 369 A2&A	\3	01/1998	••	EP		H03D	7/00	N
	AK13	wo	91/18445 A1		11/1991		PCT		H03D	7/18	N/
	AL13	wo	99/23755 A1		05/1999		PCT		H03D	7/16	N/
	AM13	JP 5	6-114451		09/1981		JP		H04B	7/02	N
			OTHE	R (Inc	luding Auth	nor, Ti	tle, Date, Perti	nent Pages,	etc.)	<u>-</u>	
	AN	<u>13</u>	Hospitalier, E Vol. VII, pp. 2			Recor	ding and Obser	ving Rapidly \	arying Pheno	omena," <i>Scie</i>	nce Abstracts, IEI
	AO	<u>13</u>		ne Inst	itution of En	gineer	emodulating Hig s <i>Australia Vibra</i> 20, 1990).				
	АР	13					nd-Hold Amplifie uter Engineering				er of Applied n Services, pp. 1
	AQ	13					of Microwave In		uits Using An	Optical Phas	e-Locking and
	AR	<u>13</u>	Hurst, P.J., "S Transactions 1991).	Shifting on Cir	the Frequencuits and Sy	ncy Re	esponse of Swite	ched-Capacito	or Filters by N Society, Vol. (	onuniform Sa 38, No. 1, pp.	ampling," <i>IEEE</i> 12-19 (January
EXAMINER			<u> </u>	•		-			DATE CONS	SIDERED	

MADE INFORMATION DISCLOSURE STATEMENT

	1496 14 01 30
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE May 16, 2001	GROUP 2681

						Ма	y 16, 2001	2681					
	<u> </u>	_			U.S. P	ATEN	T DOCUMENTS_		<del></del>	<del></del>			
EXAMINER INITIAL			CUMENT MBER	DATI	<b>E</b>	NAM	E	CLASS	SUB- CLASS	FILING DATE			
	AA14	4,80	1,823	01/19	989	Yoko	yama	307	353				
	AB14	4,80	6,790	02/19	989	Sone		307	353				
	AC14	4,81	0,904	03/19	989	Craw	ford	307	353				
	AD14	4,81	0,976	03/19	989	Cowl	ey et al.	331	117 R				
	AE14	4,81	1,362	03/19	989	Yest	er, Jr. et al. PECEN	375	75				
	AF14	4,81	9,252	04/19	989	Chris	er, Jr. et al. RECEN	<b>5</b> 375	122				
	AG14	4,83	3,445	05/1989 08/1989		Buch	ele AUG 2 0	200341	118				
	AH14	4,86	2,121			Hochschild et al.		333	173				
_	Al14	4,86	8,654	09/19	989	Juri e	et al. Technology Cent	er 2858n	133				
				FOREIGI		PATI	ENT DOCUMENTS						
EXAMINER NITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
	AJ14	JP 8	-32556		02/1996		JP	H04L	1/04	N			
	AK14	JP 8	-139524		05/1996		JP	H03D	7/00	N			
	AL14	JP 5	9-144249		08/1984		JP	H04L	27/00	1			
	AM14	JP 6	3-54002		03/1988		JP	нозв	19/114	N			
	_	<u> </u>	OTHE	D /In	Judina Aut	or T	or, Title, Date, Pertinent Pages, etc.)						
	AN	<u>14</u>	Janssen, J.M	ngs Ci	n Experimen	tal 'St	d Systems, IEE, Vol. 141, No						
	Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," <i>Philips Technical Review,</i> Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (Augu 1950).  Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to at Mc/s: II. Electrical Build-Up," <i>Philips Technical Review,</i> Philips Research Laboratories, Vol. 12, No. 3, pp. (September 1950).												
	AQ	14	Jondral, V.F. June 1996).	et al.,	"Doppler Pro	ofiles fo	or Communication Satellites,	" Frequenz, H	erausberger,	pp. 111-116 (Ma <sub>)</sub>			
	AR	14					oread Spectrum System for 0 EEE Communications Societ			ence of in-band			
EXAMINER			<u> </u>			•		DATE CONS	SIDERED				



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE May 16, 2001	GROUP 2681

			<del></del>			Ma	y 16,	2001		2681		
					U.S. P.	ATEN	r docu	MENTS				
EXAMINER INITIAL		DOC	UMENT IBER	DAT	E .	NAM	E	_		CLASS	SUB- CLASS	FILING DATE
	AA15	4,870	0,659	09/19	989	Oish	et al.			375	82	
	AB15	4,87	1,987	10/19	989	Kawa	se			332	100	
	AC15	4,88	5,587	12/19	989	Wieg	and et a	I.		42	14	
	AD15	4,88	5,756	12/19	989		nes et a			375	82	
	AE15	4,888	3,557	12/19	989	Puck	ette, IV e	et al.		329	341	
	AF15	4,890	0,302	12/19	989	Muilv	/ijk			375	80	
	AG15	4,893	3,316	01/19	90 Janc e		Janc et al.			375	44	
	AH15	4,893	3,341	01/1990		Gehring				381	7	
	Al15	4,894	4,766	01/19	990	De A	gro			363	159	
	_			FOREIGN		N PATENT DOCUMENTS						_
EXAMINER INITIAL		DOC	UMENT NUMI	BER	DATE		COUNT	ΓRY		CLASS	SUB- CLASS	TRANSLATION
	AJ15	JP 6	-237276		08/1994		JP	REC	CEIV	EBL	27/20	N
	AK15	JP 8-	-23359		01/1996		JP AUG 2 0		2 0 2	H04L	27/20	N
	AL15	JP 4	7-2314		02/1972		JP Technology Cer		y Cent	 er 2600		Ye: (Doc. AP53
	AM15	JP 58	3-7903		01/1983		JP			H03C	1/02	Partia (Doc. AQ53
			OTHE	R (Inc	R (Including Author, Title, Date, Pertinent Pages, etc.)							
	AN	<u>15</u>	Transactions 1614 (Novem	on An ber 19	tennas and h	Propag dersan	ation, IE	for Troposphe EE Antennas duces data-ac 22, 224, 226-2	and Pro	pagation So	ciety, Vol. 36	, No. 11, pp. 1608
	AP	<u>15</u>	Lam, W.K. <i>et</i> Identifier," <i>Pro</i> 2-4, 1993).	al., "N oceedi	leasurementings Of the 1	t of the	Phase I EE Inter	Noise Charact national Frequ	eristics uency C	of an Unlock	ed Communi osium, IEEE,	cations Channel pp. 283-288 (June
	AQ	<u>15</u>		et al., "Wideband sounding of 11.6 Ghz transhorizon channel," <i>Electronics Letters</i> , IEE, Vol. 30, No739 (April 28, 1994).								
	AR	<u>15</u>	Larkin, K.G., pp. 101-102 (				bandpa	ss sampled Al	M signa	ls," <i>Electron</i>	ics Letters, IE	EE, Vol. 32, No. 2,
EXAMINER	11									DATE CON	SIDERED	



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851

APPLICANT
Sorrells et al.

FILING DATE GROUP
May 16, 2001 2681

				May 16, 2001					[2681				
					U.S. P.	ATEN	T DOCUM	ENTS					
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE		
	AA16	4,89	6,152	01/19	990	Tiem	ann		340	853			
	AB16	4,90	2,979	02/19	990	Puck	ette, IV		329	343			
	AC16	4,90	8,579	03/19	990	Tawf	ik <i>et al.</i>		328	167			
	AD16	4,91	0,752	03/19	990	Yest	er, Jr. <i>et a</i>	1.	375	75_			
	AE16	4,91	4,405	04/19	990	Wells	3		331	25			
	AF16	4,92	0,510	04/19	990	Send	erowicz e	t al.	364	825			
	AG16	4,92	2,452	05/19	990	Larsen et al.  Anderson Gehring et al.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	365	45			
	AH16	4,93	1,921	06/19	990				363	163			
	Al16	4,94	4,025	07/19	990				455	207			
					FOREIGN	I PATI	ENT DOC	JMENTS		<del></del>	_		
XAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTE		CLASS	SUB- CLASS	TRANSLATION		
	AJ16	JP 5	8-133004		08/1983	·	JP	RECEI		1/00	N		
	AK16	JP 6	0-58705		04/1985		JP	AUG 2 (		7/00	N		
	AL16	JP 4	-123614		04/1992		JP	Technology Ce	utbosk00	19/0175	N		
	AM16	JP 4	-127601		04/1992		JP		H03D	7/00	N		
-		1	OTH	D /In/	l dan dina Auth		tle Date	Pertinent Pages, e	tc \				
	AN	<u>16</u>	IEEE Global 1988).	Teleco	mmunication	ns Con	ference &	tructure of Microwa Exhibition, IEEE, p	o. 1707-1711 	(November 2	28 - December 1,		
	АР	<u>16</u>		on Ins	trumentation	and M		on the Estimation of the ent, IEEE Instrument					
	AQ	<u>16</u>	Speed Modul	A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-dulators," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and s Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).									
AR  Linnenbrink, T.E. et al., "A One Gigasample Per Second Transic Science, IEEE Nuclear and Plasma Sciences Society, Vol. NS-2													
EXAMINER			L					<u></u>	DATE CONS	SIDERED	<del></del>		



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

							LING DATE y 16, 2001			2681				
					U.S. P	ATEN	T DOCUMENT	s	· · · · · · · · · · · · · · · · · · ·					
EXAMINER INITIAL			CUMENT MBER	DAT		NAM				CLASS	SUB- CLASS	FILING DATE		
	AA17	4,95	55,079	09/19	990	Conr	nerney <i>et al</i> .		_	455	325			
	AB17	4,96	65,467	10/19	990	Bilter	rijst			307	352			
	AC17	4,96	67,160	10/19	990	Quie	vy et al.			328	16			
	AD17	4,97	70,703	11/19	990	Harit	Hariharan et al.			367	138			
	AE17	4,98	32,353	01/19	991	Jacob et al.			-	364	724.10			
	AF17	4,98	34,077	01/19	991	Uchi	da			358	140			
	AG17	4,99	95,055	02/19	991	Weir	berger et al.			375	5			
	AH17	5,00	03,621	03/19	991	Gailu	s			455	209			
	Al17		05,169	04/19	991	Bron	der <i>et al</i> .			370	76			
	· · · · · · · · · · · · · · · · · · ·		·		FOREIGN	N PATI	ENT DOCUME	NTS	REC					
EXAMINER									****	JEIVED				
INITIAL		<u> </u>	CUMENT NUM	BER	DATE	<u>.</u>	COUNTRY			2°6^2802	SUB- CLASS	TRANSLATION		
	AJ17		5-175730 		07/1993		JP	Tec	hnolog	HO3D Center 26		N		
	AK17	JP 5	5-175734 		07/1993		JP į			H03D	3/00	N		
	AL17	JP 7	7-154344		06/1995		JP			H04B	14/06	No.		
	AM17	7-307620		11/1995		JP			H03D	1/18	No			
			ОТНЕ	R (Inc	cluding Aut	hor, Ti	tle, Date, Pert	inent Pa	ages, et	c.)				
	AN	<u>17</u>			utorial on Computer-Aided Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEE</i> o. 8, pp. 987-1005 (August 1983).									
	AO	<u>17</u>	Lo, P. <i>et al.</i> , " (March 26, 19		ent Automat	tic Gaiı	n Control," <i>IEE</i>	Colloqu	ium on i	Phase Locked	1 Technique	s, IEE, pp. 2/1-2/6		
	АР	<u>17</u>					uced Scintillation					e Frequencies," -15, 1983).		
	AQ	<u>17</u>					mplitude Scintil 08 (March 29, 1		on a Lov	v-Elevation Ea	arth-Space	Path," <i>Electronics</i>		
	AR	<u>17</u>										ave Theory and (October 1992).		
EXAMINER										DATE CONSI	DERED			



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.1260001
APPLICATION NO.
09/855,851
APPLICANT
Sorrells et al.
FILING DATE
GROUP

							LING DATE y 16, 200		2681		
	<del> </del>				U.S. P	ATEN	T DOCUME!	NTS			
EXAMINER NITIAL			CUMENT MBER	DATI	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA18	5,00	6,810	04/19	991	Pope	scu		328	167	
	AB18	5,01	0,585	04/19	991	Garo	ia		455	118	
	AC18	5,01	4,304	05/19	991	Nicol	lini <i>et al.</i>		379	399	
	AD18	5,01	5,963	05/19	991	Sutto	n		329	361	
	AE18	5,01	7,924	05/19	991	Guiberteau et al.			342	195	
	AF18	5,02	0,149	05/1991 05/1991		Hemmie Zierhut			455	325	
	AG18	5,02	0,154						455	608	
	AH18	5,05	2,050	09/19	91	Collie	er et al.		455	296	
	Al18	5,06	5,409	11/19	991	Hugh	ies <i>et al.</i>		375	91	
					FOREIGN	N PATI	NT DOCUM	MENTS			
XAMINER NITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	RECEIVE	CLASS	SUB- CLASS	TRANSLATIO
	AJ18	JP 5	5-66057		05/1980	•	JP	AUG 2 0 20	G06K 102	7/10	<u>'</u>
	AK18	JP 6	3-65587		03/1988		JP		G06K	7/10	1
	AL18	JP 6	3-153691		06/1988		JP Technology Center		<del>r <b>2600</b>   G</del> 06K	17/00	ı
	AM18	EP 0	276 130 A2&A	13	07/1988		ЕP		H03D	7/00	N
			OTHE	R (Inc	cluding Aut	hor, Ti	tle, Date, Pe	ertinent Pages, e	etc.)		
	AN	<u>18</u>						ntegrated circuit s ugust 7, 1989).	ampling head	," Appl. Phys	:. Lett., American
	АО	<u>18</u>						uilding Blocks for Society, Vol. CAS			
	АР	<u>18</u>	Tropospheric	Turbu	lence on Ea	rth-Sat	ellite Microw	iction of Amplitud vave Links," <i>IEEE</i> No. 10, pp. 1506-	Transactions	s on Antenna	
	AQ	<u>18</u>						o rain in satellite c 35-941 (May-Jun		n systems," <i>F</i>	Radio Science,
	AR	<u>18</u>	McQueen, J.( Vol. XXIV, No					aveforms," <i>Electr</i>	onic Enginee	ring, Morgan	Brothers Limited
EXAMINER									DATE CON	SIDERED	V 1510



RMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

MAUE	<u> Cerumina no</u>	N DIC	CHOSONE STA		. <u></u>		LING DATE y 16, 2001			GROUP 2681		
	<del></del>		<u> </u>		U.S. P.	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DAŤI	<b>=</b>	NAM	IE		CLA	ss	SUB- CLASS	FILING DATE
	AA19	5,08	33,050	01/19	992	Vasi	e	•	307		529	
	AB19	5,09	1,921	02/19	992	Mina	mi		375		88	
	AC19	5,09	5,533	03/19	992	Lope	er et al.		455		245	
	AD19	5,09	5,536	03/19	992	2 Loper			455		324	
	AE19	5,11	1,152	05/19	992	Maki	no		329		300	
	AF19	5,11	3,094	05/19	992	Grac	e et al.		307		529	
	AG19	5,11	3,129	05/19	992	Hugh	nes		323		316	
	AH19	5,12	2,765	06/19	92	Pata	ut		332		105	
	AI19	5,12	4,592	06/19	92	Hagi	no		307		520	
· <del>_</del> . <u> </u>		_			FOREIGN	PAT	ENT DOCUMENTS	<u> </u>				
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLA	ss	SUB- CLASS	TRANSLATION
	AJ19		95/01006 A1		01/1995		РСТ	F		<b>JEIV</b>	1/66 <b>'ED</b>	N/A
	AK19	wo	97/08839 A2&/	43	03/1997		PCT		H04		1/04 2002	N/A
	AL19	ļ						Tech	nolog	ı <del>y Cen</del>	er 2600	Yes No
	AM19						ذ.					Yes No
			OTHE	R (Inc	luding Auth	or, T	itle, Date, Pertinent P	ages, et	c.)			
	AN	<u>19</u>	Merkelo, J. ar Vol. SC-7, No	nd Hall . 1, pp	l, R.D., "Broa o. 50-54 (Feb	ad-Bar oruary	nd Thin-Film Signal Sa 1972).	ımpler," //	EEE J	ournal d	of Solid-Stat	e Circuits, IEEE,
	AO	<u>19</u>	Merlo, U. <i>et a</i> No. 23, pp. 10				n Cycles in a Sirio Sat 1985).	ellite-Ear	th Link	k," <i>Elec</i> i	tronics Lette	rs, IEE, Vol. 21,
	АР	<u>19</u>	Morris, D., "R cosmic signal (II) 1988).	adio-h sourc	olographic re e," <i>Astronon</i>	eflectony and	or measurement of the Astrophysics, Springe	30-m mil er-Verlag	llimete , Vol. :	r radio 203, No	telescope at b. 2, pp. 399-	22 Ghz with a 406 (September
	AQ	<u>19</u>	Moulsley, T.J.	et al. and Ra	, "The efficie adio Enginee	nt acq rs, IEI	uisition and processin RE, Vol. 55, No. 3, pp.	g of prop 97-103 (	agatio (March	n statis 1985).	tics," Journa	l of the Institution
	AR	<u>19</u>		n Radi	o Communic		Characterization of an at Microwave and Mil					
EXAMINER			<u> </u>					Ī	DATE	CONSI	DERED	

AUG 1 6 2002

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

	ORMATIO	N DISC	LOSURE STA	TEME	NT		ileila et al.				
PRADEMARK							LING DATE y 16, 2001		GROUP 2681		
					U.S. P/	ATEN	T DOCUMENTS				
EXAMINER INITIAL		DOCU	JMENT BER	DAT	E	NAM	E	С	LASS	SUB- CLASS	FILING DATE
	AA20	5,136	267	08/19	992	Cabo	t	33	33	174	
	AB20	5,140	,705	08/19	992	Kosu	ga	45	55	318	
	AC20	5,150	124	09/19	992	Moor	e et al.	34	12	68	
	AD20	5,151	,661	09/19	992	Cald	well et al.	32	28	14	
	AE20	5,159	710	10/19	992	Cusc	in	45	55	304	
	AF20	5,170	414	12/19	92	Silvia	in	37	75 .	59	
	AG20	5,172	,070	12/19	992	Hirai	va et al.	32	29	304	
	AH20	5,191	459	03/19	993	Thon	pson <i>et al.</i>	35	59	133	
	AI20	5,204	642	04/19	993	Ashg	ar et al.	33	31	135	
					FOREIGN	PATI	NT DOCUMENTS	· · ·			
EXAMINER INITIAL		DOCL	JMENT NUM	BER	DATE		COUNTRY	C	LASS	SUB- CLASS	TRANSLATION
	AJ20										Yes No
	AK20							f	RECE	IVED	Yes No
	AL20								AUG 2	0 2002	Yes No
	AM20							Tech	nology (	enter 2600	Yes No
			OTHE	R (Inc	luding Auth	or, Ti	tle, Date, Pertinent Pa	iges, etc.)			
	AN	20	Link," <i>IEE Co.</i> <i>Radio</i> , IEE, p	lloquiu o. 9/1- chipse	ım on Propag 9/6 (Novemb	gation per 24	Signal Levels and Dop Characteristics and Re 1997). ectronic Engineering, U	lated Syste	m Technie	ques for Beyo	ond Line-of-Sight
	AP						filter cuts cost of telec p. 130-135 (April 12, 19		ns," <i>Elect</i>	ronic Design,	Hayden
	AQ	20	Oppenheim, A	N.V. et	al., Signals	and S	ystems, Prentice-Hall, p	op. 527-531	and 561-	562 (1983).	
	AR						Affecting Amplitude So 7, pp. 771-772 (Augus		leasurem	ents on Satel	lite Links,"
EXAMINER								DAT	E CONSI	DERED	



ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al. GROUP
May 16, 2001 2681

						Ma	y 16, 2001		2681		
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
	AA21	5,21	2,827	05/19	993	Mesz	ko <i>et al.</i>	45	5	219	
	AB21	5,21	4,787	05/19	993	Kark	ota, Jr.	45	5	3.2	
	AC21	5,22	20,583	06/19	993	Solo	mon	37	5	82	
•	AD21	5,22	20,680	06/19	993	Lee		45	5	102	
	AE21	5,22	2,144	06/19	993	Whik	ehart	38	1	15	
	AF21	5,23	0,097	07/19	993	Curri	e et al.	45	5	226.1	
	AG21	5,23	9,686	08/19	993	Dow	ney	45	5	78	
_	AH21	5,24	1,561	08/19	993	Barn	ard	37	5	1	
	Al21	5,24	9,203	09/19	993	Lope	r	37	5	97	
		·			FOREIGN	N PATI	NT DOCUMENTS				
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATIO
	AJ21										Ye N
	AK21	ļ						F	RECE	IVED	Ye N
	AL21	ļ								0 2002	Ye N
,	AM21				!					!	Ye N
			OTH	ED (In	luding Aut	hor Ti	tle, Date, Pertinent Pa	ann atal	muty C	enter 2600	
	AO	<u>21</u>	Theory and T	echnic t al., "I ts," Int	gues, IEEE, \ Evaluation of ternational Jo	Vol. 45	tic Sampler for Signal Dece No. 12, 7 pages (Dece stical Models for Clear-A of Satellite Communicat	ember 1997)	on Predic	ation Using O	lympus Satellite
	АР	<u>21</u>	Perrey, A.G. Dept. of Com	and So	choenwetter, , pp. 1-14 (M	, H.K., ⁄lay 19	NBS Technical Note 11. 80).	21: A Schot	tky Diode	e Bridge San	opling Gate, U.S
	AQ	<u>21</u>	Poulton, K. e. pp. 962-969 (			ADC	System," <i>IEEE Journal o</i>	of Solid-Stat	e Circuit	s, IEEE, Vol.	SC-22, No. 6,
	AR	<u>21</u>	Press Releas (April 6, 1994		rkervision, Ir	nc. Anr	nounces Fiscal 1993 Re	sults," Lippe	ert/Heilsh	orn and Ass	ociates, 2 Page
EXAMINER			L				-	DATE	CONSI	DERED	
								-1		<del>_</del>	

AU6 1 6 2002

FORM PTO-1449

MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

HOL						LING DATE y 16, 2001		GROUP 2681		
			<del></del>	U.S. P		F DOCUMENTS		1		
EXAMINER INITIAL		DOCUMEN NUMBER	T DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA22	5,251,218	10/19	993	Stone	e et al.		370	120	
	AB22	5,251,232	10/19	993	Nona	mi .		375	5	
	AC22	5,260,970	11/19	993	Henr	y et al.		375	10	
	AD22	5,263,194	11/19	993	Raga	n		455	316	
<u>.</u>	AE22	5,263,196	11/19	993	Jasp	er		455	324	
	AF22	5,267,023	11/19	993	Kawa	saki	Ĭ	358	23	
	AG22	5,278,826	01/19	994	Murp	hy et al.		370	76	
	AH22	5,282,023	01/19	994	Scar	oa		358	36	
	Al22	5,287,516	02/19	994	Scha	ub		375	88	
				FOREIGN	N PATE	NT DOCUMENTS				
EXAMINER INITIAL	1	DOCUMEN	T NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ22									Yes No
	AK22							RE(	EIVE	Yes No
	AL22							AUG	<b>2 0</b> 2002	Yes No
•	AM22			_			7	[echnolog	Center 26	Yes No No
			OTHER (Inc	luding Aut	hor, Ti	tle, Date, Pertinent P	ages, etc.	)		
-	AN	Sales	Manager," Lip	opert/Heilsho	orn and	ounces the Appointm Associates, 1 Page (	April 7, 19	94).		
	AO		Release, "Pa siates, 2 Page:			aman Well-Received I	By Distanc	e Learning	Market," Lipp	ert/Heilshorn and
	АР		Release, "Pa siates, 2 Pages			ounces First Quarter	Financial F	Results," Lip	ppert/Heilshor	n and
	AQ					ounces The Retireme ige (May 11, 1994).	nt of Willia	ım H. Fletch	ner, Chief Fin	ancial Officer,"
	AR					ounces New Camerai iges (June 9, 1994).	man Syste	m II™ At In	focomm Trad	e Show,"
EXAMINER							D/	ATE CONSI	DERED	

APPLICANT

1744.1260001

ATTY. DOCKET NO.

APPLICATION NO. 09/855,851

Sorrells et al.

ATION DISCLOSURE STATEMENT FILING DATE GROUP 2681 May 16, 2001 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA23 5,293,398 03/1994 Hamao et al. 375 1 **AB23** 314 5,303,417 04/1994 Laws 455 Rich 306 AC23 5,307,517 04/1994 455 AD23 370 18 5,315,583 05/1994 Murphy et al. AE23 5,321,852 06/1994 Seong 455 182.1 AF23 06/1994 348 607 5,325,204 Scarpa AG23 5,337,014 08/1994 Najle et al. 324 613 AH23 5,339,054 08/1994 Taguchi 332 100 08/1994 Schiltz et al. Al23 5,339,459 455 333 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION **CLASS** AJ23 Yes No AK23 Yes No AL23 Yes No Technology Center 2600 Yes AM23 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and AN 23 Associates, 2 Pages (June 17, 1994). Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," AO <u>23</u> Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994). Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," AP 23 Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994). Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," AQ 23 Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and AR 23 Associates, 2 Pages (March 1, 1995). **EXAMINER** DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

ORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001

GROUP 2681

						Ma	y 16, 2001		2681		
					U.S. P.	ATEN	DOCUMENTS				
EXAMINER INITIAL			CUMENT IBER	DATE	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
	AA24	5,35	5,114	10/19	994	Sutte	rlin <i>et al.</i>	340	)	310 A	
	AB24	5,36	1,408	11/19	994	Wata	nabe <i>et al.</i>	455	5	324	
	AC24	5,36	9,800	11/19	994	Taka	gi <i>et al</i> .	455	5	59	
	AD24	5,37	5,146	12/19	994	Chair	ners	375	5	103	
-	AE24	5,37	9,040	01/19	995	Mizo	noto <i>et al</i> .	341	1	143	
	AF24	5,37	9,141	01/19	995	Thon	pson <i>et al.</i>	359	)	125	
	AG24	5,38	8,063	02/19	995	Taka	tori <i>et al.</i>	364	1	724.17	
	AH24	5,39	0,364	02/19	995	Webs	ster et al.	455	5	52.3	
	Al24	5,40	0,084	03/19	995	Scar	oa	348	3	624	
	,				FOREIGN	PATE	NT DOCUMENTS				
EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ24										Yes No
	AK24								REC	EIVEC	Yes No
	AL24								AUG	2 0 2002	Yes No
	AM24							Tec	hnolog	y Center 26	Yes
		1	OTHE	R (Inc	luding Aut	hor Ti	tle, Date, Pertinent Page				
	AN	<u>24</u>	Press Releas Associates, 2				nounces Joint Product De	velopment	s With V	TEL," Lipper	t/Heilshorn and
	AO	<u>24</u>	Press Releas Associates, 3				nounces First Quarter Fina	ancial Res	ults," Lip	pert/Heilshor	n and
	АР	<u>24</u>					p 100 Product Districts' C June 29, 1995).	Choice Awa	ard," Parl	kervision Mar	keting and
	AQ	<u>24</u>					Sales Manager Next Pred July 6, 1995).	sident of U	JSDLA,"	Parkervision	Marketing and
	AR	<u>24</u>	Press Releas Page (July 21			ranted	New Patent," Parkervisio	n Marketin	ng and M	anufacturing	Headquarters, 1
EXAMINER			<u> </u>					DATE	CONSI	DERED	

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP 2681

						Ма	y 16, 2001		2681					
					U.S. P	ATEN	T DOCUMENTS							
EXAMINER INITIAL			CUMENT MBER	DAT	Ē	NAM	E	CLA	ss	SUI CL/	B- ASS		FILING DA	TE
-	AA25	5,40	4,127	04/19	995	Lee (	et al.	340		310	.02			
-	AB25	5,41	0,541	04/19	995	Hotto	)	370		76				
	AC25	5,41	0,743	04/19	995	Seel	y et al.	455		326	;			
	AD25	5,41	2,352	05/19	995	Grah	am	332		103	}			
	AE25	5,41	6,803	05/19	995	Jane	r	375		324	,			
	AF25	5,42	2,913	06/19	995	Wilki	nson	375		347	,			
	AG25	5,42	3,082	06/19	995	Cyga	n <i>et al.</i>	455		126	;			
	AH25	5,42	8,638	06/19	995	Cioff	et al.	375		224				
	Al25	5,42	8,640	06/19	995	Towr	nley	375		257	,		-	
					FOREIGN	PATI	ENT DOCUMENTS							
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLA	ss	SUE			TRANSLAT	rion
	AJ25													Yes No
	AK25								RE	CE	ΞIV	Έ	D	Yes No
	AL25			· ·					AU	3 2	0 2	200	2	Yes No
	AM25	1						Te	chnol	gy (	Cent	er	2600	Yes No
			ОТНЕ	R (Inc	cluding Autl	nor, Ti	tle, Date, Pertinent Pages,	etc.)						
	AN	<u>25</u>	Press Releas Marketing and	e, "Pa d Man	rkervision, Ir ufacturing He	nc. Anr eadqua	nounces Second Quarter and arters, 2 Pages (July 31, 199	d Six Moi 15).	nths Fin	ancia	al Re	sult	s," Parkervis	sion
	AO	<u>25</u>	Press Releas and Manufact	e, "Pa uring l	rkervision, Ir Headquarter	ıc. Exp s, 2 Pa	pands Its Cameraman Syster ages (September 22, 1995).	m II Prod	uct Line	e," Pa	arker	visio	on Marketing	9
	АР	<u>25</u>	Press Releas Manufacturing	e, "Pa g Head	rkervision Ar Iquarters, 2	nnound Pages	ces New Camera Control Teo (October 25, 1995).	chnology	," Park€	ervisi	on M	lark	eting and	
	AQ	<u>25</u>	Press Releas Parkervision I	e, "Pa Market	rkervision, Ir ting and Mar	ıc. Anr ıufactu	nounces Completion of VTEL Iring Headquarters, 2 Pages	/Parker\ (Octobe	rision Jo r 30, 19	oint P 95).	rodu	ıct L	ine,"	
	AR	<u>25</u>	Press Releas Marketing and	e, "Pa d Mani	rkervision, Ir ufacturing He	ic. Anr	nounces Third Quarter and N arters, 2 Pages (October 30,	line Mon 1995).	ths Fina	ıncial	l Res	ults	," Parkervisi	ion
EXAMINER					<del></del>	·		DATE	CONSI	DER	ED			

AUG 1 6 2002

FORM PTO-1449

RMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP 2681

MAUEN				••••		Ma	y 16, 2001		2681			
					U.S. P	ATEN	DOCUMENTS					
EXAMINER INITIAL			UMENT IBER	DATE	<b>=</b>	NAM	E		CLASS	SUB- CLASS	FILING DA	TE
-	AA26	5,434	4,546	07/19	95	Palm	er	;	332	151		
	AB26	5,438	3,692	08/19	95	Mohi	ndra		455	324		
	AC26	5,444	4,415	08/19	95	Dent	et al.	. ;	329	302		
	AD26	5,444	4,416	08/19	95	Ishika	awa et al.	:	329	341		
	AE26	5,444	4,865	08/19	95	Heck	et al.		455	86		
	AF26	5,446	6,421	08/19	95	Kech	kaylo	;	332	100		_
	AG26	5,446	5,422	08/19	95	Matti	a et al.	:	332	103		
	AH26	5,448	3,602	09/19	95	Ohm	ori <i>et al</i> .		375	347		
	A126	5,45	1,899	09/19	95	Lawte	on	;	329	302		
-	-				FOREIGN	N PATE	NT DOCUMENTS					
EXAMINER INITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	TION
	AJ26		<del></del>	-								Yes No
	AK26									CEIVE		Yes No
	AL26									2 0 200		Yes No
	AM26								Technolo	gy Center 2	600	Yes No
			ОТНЕ	ER (Inc	luding Aut	hor, Ti	tle, Date, Pertinent Pa	ges, etc.	)			
	AN	<u>26</u>	Parkervision	Marke	ting and Ma	nufactu	aman Personal Locator Iring Headquarters, 2 Pa	ages (No	vember 1, 1	1995).		
	AO	<u>26</u>	Marketing an	d Man	ufacturing H	leadqu	arters, 1 Page (February	y 26, 199	6).	Corporation,	1 arkervisi	
	АР	<u>26</u>	Press Releas and Manufac	se, "Pa turing	rkerVision, I Headquarte	Inc. An rs, 2 Pa	nounces Fourth Quarter ages (February 27, 1996	and Yea	r End Resu	ılts," Parkervi	ision Markel	ting
	AQ	<u>26</u>	Press Releas Headquarters				pands its Product Line," 6).	Parkervi	sion Marke	ting and Man	ufacturing	
	AR	<u>26</u>					atents for its Research o age (March 28, 1996).	f Wireles	s Technolo	gy," Parkervi	sion Market	ing
EXAMINER			1					D/	ATE CONS	IDERED		

AUG 1 6 2002

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

						Ma	y 16, 2001		2681		
					U.S. P.	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT IBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA27	5,45	4,007	09/19	95	Dutta	l		375	322	
	AB27	5,45	4,009	09/19	995	Fruit	et al.		372	202	
-	AC27	5,46	3,356	10/19	995	Palm	er		332	117	
	AD27	5,46	3,357	10/19	995	Hobo	en		332	151	
	AE27	5,46	5,071	11/19	995	Koba	yashi <i>et al.</i>		329	315	
	AF27	5,46	5,410	11/19	995	Hibei	n et al.		455	266	
	AG27	5,46	5,415	11/19	995	Bien			455	326	
	AH27	5,47	1,162	11/19	995	McE	van		327	92	
	Al27	5,47	9,120	12/19	995	McE	van		327	91	
-					FOREIGN	PATE	NT DOCUMENTS				
EXAMINER NITIAL		DOC	UMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ27							_			Ye
	A1407	-						RE	CEIVE	7	N V-
	AK27									J	Ye N
	AL27						To	AU	G 2 0 200	J2	Ye N
	AM27						10	-CHIIOK	gy Center	2600	Ye N
			OTUS	D (In	Ludina Auth	nor Ti	tle, Date, Pertinent Pag	~~~ oto			
	AO	<u>27</u> <u>27</u>	Parkervision Press Releas	Market	ting and Mar	nufactu	nounces First Significant ring Headquarters, 2 pa duces New Product Lir arters, 2 Pages (April 15	iges (Ap	oril 12, 1996). Studio Produc		
	<del>-  </del>							, 1990).			
	АР	<u>27</u>					nounces Private Placemonge (April 15, 1996).			es," Parker	vision Marketing
	AP	<u>27</u> <u>27</u>	and Manufact	e, "Pa	Headquarters	s, 1 Pa		ent of 8	00,000 Share		
			Press Releas	e, "Pa g Head	rkervision, Indquarters, 3 (	s, 1 Pa	nge (April 15, 1996).  nounces First Quarter Fir (April 30, 1996).	ent of 8	00,000 Share	rkervision !	Marketing and

AUG 1 6 2002 FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

	rage 20 Of Jo
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE May 16, 2001	GROUP 2681

			· · · · · · · · · · · · · · · · · · ·		HSD	ATEN	T DOCUMENTS			
EXAMINER	<del></del>	Γ		Π	U.S. P	AIEN	I DOCUMENTS			Τ
INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA28	5,47	9,447	12/19	995	Chov	v et al.	375	260	
	AB28	5,48	3,193	01/19	996	Kenn	edy et al.	329	300	
	AC28	5,48	3,549	01/19	996	Wein	berg <i>et al.</i>	375	200	
	AD28	5,48	3,691	01/19	996	Heck	et al.	455	234.2	
	AE28	5,49	0,173	02/19	996	Whik	ehart <i>et al.</i>	375	316	
	AF28	5,49	3,581	02/19	996	Youn	g et al.	375	350	
	AG28	5,49	3,721	02/19	996	Reis	<del></del>	455	339	
	AH28	<del></del>	5,200	02/19	996	Kwar	n et al.	327	554	
······	Al28	1	5,202	02/19	996	Hsu		327	113	
					FOREIGN	PATE	ENT DOCUMENTS		·	
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ28									Yes No
	AK28									Voo
	1						_	RE	CEIVE	No
	AL28							Aug	2 0 200	Yes No
	AM28									† Vac
								<u>lechnolog</u>	) <del>y Center 2</del>	No
	T		OTHE	R (In	cluding Aut	hor, Ti	tle, Date, Pertinent Pages	s, etc.)		
	AN	<u>28</u>					nounces Second Quarter a arters, 3 Pages (August 1,		nancial Resu	lts," Parkervision
	AO	<u>28</u>					nounces Third Quarter and arters, 2 Pages (October 2		ancial Result	s," Parkervision
	АР	<u>28</u>	Press Releas Manufacturing	e, "Pic g Head	ctureTel and dquarters, 2	Parke Pages	Vision Sign Reseller Agree (October 30, 1996).	ement," Parkervis	ion Marketin	g and
	AQ	28	Press Releas Pages (Janua			Vision	Bring Enhanced Ease-of-L	Jse to Videoconfe	erencing," CL	I/Parkervision, 2
	AR	28					nounces Fourth Quarter an ages (February 27, 1997).	d Year End Resu	its," Parkervi	sion Marketing
EXAMINER			l					DATE CONS	DERED	



		,
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851	
APPLICANT Sorrells et al.		
FILING DATE	GROUP	

1 **							44.1260001			5,851	·		
TRADEM!	PAT I	FORM	PTO-1449			APPLICANT Sorrells et al.							
<u>IN</u>	<u>FORMATIO</u>	N DIS	SCLOSURE STA	TEME	<u>NT</u>	FI	LING DATE y 16, 2001		GROUP 2681	<del></del>			
					U.S. F		T DOCUMENTS						
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE		
	AA29	5,49	95,500	02/19	996	Jova	novich <i>et al</i> .		375	206			
	AB29	5,49	99,267	03/19	996	Ohe	et al.		375	206			
	AC29	5,50	00,758	03/19	996	Thor	npson <i>et al.</i>		359	189			
	AD29	5,5	17,688	05/19	996	Faje	n et al.		455	333			
	AE29	5,5°	19,890	05/19	996	Pincl	kley		455	307	ļ		
	AF29	5,52	23,719	06/19	996	Long	o et al.		327	557			
	AG29	5,52	23,726	06/19	996 Kroeger et al.			332	103				
	AH29 5,523,760 06/199					McEwan			342	89			
	Al29	5,53	39,770	07/19	07/1996		Ishigaki		375	超ECE	IVED		
					FOREIGI	N PAT	ENT DOCUMENTS			A 110 0			
EXAMINER INITIAL		DO	CUMENT NUMI	BER	DATE		COUNTRY		CLASS Tec	AUG 2 SUB- howksov C	2002 TRANSLATION Total 2000 Yes		
	AJ29												
	AK29										Yes No		
	AL29										Yes No		
	AM29					. =-					Yes No		
		_	ОТНЕ	R (Inc	cluding Aut	hor, T	tle, Date, Pertinent P	ages, e	tc.)				
	AN	<u>29</u>					nounces First Quarter (April 29, 1997).	Financia	al Results," Pa	ırkervision Ma	arketing and		
	AO	<u>29</u>	Press Releas 1997).	e, "NE	C and Park	ervisio	n Make Distance Learr	ning Clo	ser," NEC Am	erica, 2 Page	es (June 18,		
	АР	<u>29</u>					s JPL with Robotic Car iring Headquarters, 2 p			hot Director f	or Mars Mission,"		
	AQ	<u>29</u>					1 Join Forces to Create arters, 2 Pages (July 2			Peripherals,"	Parkervision		
	AR	<u>29</u>					nounces Second Quar arters, 3 Pages (July 3			nancial Resu	lts," Parkervision		
EXAMINER			<u> </u>						DATE CONSI	DERED			



/ MATION DISCLOSURE STATEMENT ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP 2681

					II G D	ATEN	T DOCUMENTS				
EXAMINER	T	Τ		1	U.S. P	AIEN	I DOCUMENTS	<del></del>	T	T	Γ
INITIAL			CUMENT MBER	DAT	E	NAM	E	<u>.</u>	CLASS	SUB- CLASS	FILING DATE
	AA30	5,55	5,453	09/19	996	Kajin	noto <i>et al.</i>		455	266	
	AB30	5,55	7,641	09/19	996	Weir	berg		375	295	
	AC30	5,55	7,642	09/19	996	Willia	ams		375	316	
	AD30	5,57	9,341	11/19	996	Smit	n et al.		375	267	
	AE30	5,57	9,347	11/19	996	Lindo	uist <i>et al.</i>		375	346	
	AF30	5,58	4,068	12/19	996	Mohindra			455	324 RE	CEIVED
	AG30	5,59	2,131	01/19	997	Labre	eche <i>et al</i> .		332	103	
	AH30	5,60	2,847	02/19	997	Paga	no <i>et al.</i>		370	484 AUG	2 U 2002
	AI30	5,60	2,868	02/19	997	Wilso	on		375	768hnolog	
					FOREIGN	I PATI	ENT DOCUMENTS				y Center 2600
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ30										Yes No
	AK30										Yes No
	AL30										Yes No
	AM30										Yes No
***	1	<u> </u>	OTUE	D (la	aludina Aut	hor Ti	tle, Date, Pertinent Pa	200 0		ı	110
	AN	30	Press Releas and Manufact	e, "Pa turing	rkervision, Ir Headquarter	nc. Anr s, 2 Pa	nounces Private Placen ages (September 8, 199	ment of <sup>(</sup> 97).	990,000 Sha	res," Parkervi	sion Marketing
	AO	<u>30</u>					arkervision for Broadca (October 24, 1997).	st Prod	uction," Park	ervision Mark	eting and
	АР	<u>30</u>	Press Releas Manufacturing	e, "Pa g Head	rkervision, Ir dquarters, 3	nc. Anı Pages	nounces Third Quarter (October 30, 1997).	Financia	al Results," F	Parkervision M	larketing and
	AQ	<u>30</u>	Press Releas Marketing and	e, "Pa d Man	rkerVision A ufacturing He	nnoun eadqua	ces Breakthrough in W arters, 3 Pages (Decen	ireless nber 10,	Radio Freque 1997).	ency Technolo	ogy," Parkervision
	AR	<u>30</u>		ensing	g - Wireless		nounces the Appointme				
EXAMINER			<u> </u>		***************************************				DATE CONS	SIDERED	

AUG 1 6 2002

FORM PTO-1449

FARENMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1260001

APPLICATION NO.

09/855,851

APPLICANT
Sorrells et al.

FILING DATE

GROUP

						LING DATE y 16, 2001	GRO 268		
				U.S. F	PATEN	T DOCUMENTS		-	
EXAMINER INITIAL		DOCUME! NUMBER	NT DAT	Ē	NAM	ΙΕ	CLASS	SUB- CLASS	FILING DATE
	AA31	5,604,732	02/1	997	Kim	et al.	370	342	
	AB31	5,608,531	03/1	997	Hone	la et al.	386	1	
	AC31	5,610,946	03/1	997	Tana	ika <i>et al.</i>	375	269	
	AD31	RE 35,494	04/1	997	Nico	llini	327	554	
_	AE31	5,617,451	04/1	997	Mim	ura <i>et al</i> .	375	340	
	AF31	5,619,538	04/1	997	Sem	pel <i>et al</i> .	375	328	
	AG31	5,621,455	04/1	997	Roge	ers et al.	348	6	
	AH31	5,630,227	05/1	997	Bella	et al.	455	324	
	Al31	5,640,415	06/1	997	Pano	lula	375	202	
				FOREIG	N PAT	ENT DOCUMENTS			
EXAMINER NITIAL		DOCUME	NT NUMBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ31								Ye N
	AK31								Ye N
	AL31								Ye N
	AM31								Ye N
		<u>*                                      </u>	OTHER (In	cluding Aut	thor, T	itle, Date, Pertinent Pa	ges, etc.)	<u> </u>	
	AN	31 Strat	s Release, "Pa egic Focus An uary 27, 1998)	nounced in I	Announ Decem	ces Existing Agreement ber," Parkervision Mark	with IBM Termina eting and Manufac	tes Compan turing Headqu	y Continues with uarters, 2 Pages
	AO	31 Presi	s Release, "La ufacturing Hea	boratory Te dquarters, 2	sts Ver Pages	ify Parkervision Wireles (March 3, 1998).	s Technology," Pa	rkervision Ma	rketing and
	АР					nounces Fourth Quarter arters, 3 Pages (March		ancial Results	s," Parkervision
	AQ	31 Press	s Release, "Pa lfacturing Hea	arkervision A dquarters, 2	warded Pages	d Editors' Pick of Show (April 15, 1998).	for NAB 98," Parke	ervision Marke	iting and
	AR					ces First Quarter Financ (May 4, 1998).	sial Results," Parke	ervision Marke	iting and
EXAMINER							DATE CON	SIDERED	



MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

TADEMA						LING DATE y 16, 2001		GROU 2681		
			=	U.S. P		T DOCUMENTS				<del>-,</del> -
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA32	5,640,424	06/1	997	Bana	vong <i>et al.</i>		375	316	
	AB32	5,640,428	06/1	997	Abe 6			375	334	
	AC32	5,640,698	06/1	997	Shen	et al.	1.	455	323	
	AD32	5,648,985	07/1	997	Biere	de et al.		375	219	
	AE32	5,650,785	07/1	997	Rodal			342	357 RE	CEIVED
·	AF32	5,661,424	08/1	997	Tang	•		327	105	PLIVED
	AG32	5,663,878	09/1		Walker			363	159 AU	G 2 0 2002
	AH32			09/1997		er	<del></del>	375		
	Al32	<del>                                     </del>		997	<del> </del>	n et al.		375	1248Chnok	gy Center 2600
	71102	0,000,000	. 1 00/11	*		ENT DOCUMENTS		;	1010	
EXAMINER	<u> </u>	1		T GIVE IO	11711	THE BOSONIERTO	T			
INITIAL		DOCUMENT I	NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ32									Yes No
	AK32								1	Yes No
	AL32									Yes No
	AM32									Yes No
			OTHER (In	cluding Aut	hor, Ti	tle, Date, Pertinent Pa	ges, etc.)	)		
	AN	Marketin	g and Man	ufacturing H	eadqua	2DATA' Introduced in I arters, 3 Pages (July 9, Senior Management T	1998).			
	АР	32 Press Re Marketin	elease, "Pa g and Man	rkervision Alufacturing H	nnounc	es Second Quarter and arters, 4 Pages (July 30	d Six Mon ), 1998).	th Financi	al Results," Pa	arkervision
	AQ	32 Press Re Marketin	elease, "Pa g and Man	rkervision Alufacturing H	nnounc eadqua	es Third Quarter and Narters, 3 Pages (Octobe	line Montl er 30, 1998	n Financia 8).	ıl Results," Pa	kervision
	AR					c. Invests \$5 Million in Inters, 3 Pages (Decem			non Stock," Pa	rkervision
EXAMINER						<del></del>	DA	TE CON	SIDERED	



ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851 APPLICANT Sorrells et al.

FORM PTO-1449  FORMATION DISCLOSURE STATEMENT						APPLICANT							
TE TRADE	ORMATIC	N DIS	SCLOSURE STA	TEME	<u>NT</u>		rrells et al.			<u>.</u>			
							LING DATE y 16, 2001		GRO1 268				
	<del></del>		<del></del>		U.S. P		T DOCUMENTS						
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAN	IE .		CLASS	SUB- CLASS	FILING DATE		
	AA33	5,68	30,078	10/1	997	Ariie			332	178			
	AB33	5,68	30,418	10/1	997	Crof	et al.		375	346			
	AC33	5,68	39,413	11/1	997	Jara	millo <i>et al</i> .		363	146			
	AD33	5,69	99,006	12/1	997	Zele	et al.		327	341			
	AE33	5,70	05,955	01/19	998	Free	burg <i>et al</i> .		331	14			
	AF33	5,71	10,998	01/1998		Opas			455	324			
	AG33	5,71	14,910	02/19	998	Skoo	zen et al.		331	3	<u> </u>		
	AH33	5,71	15,281	02/19	998	Bly e	t al.		375	344			
	AI33	5,72	1,514 02/19		998	Crockett et al.			331	3	<u> </u>		
					FOREIGN	PAT	ENT DOCUMENTS	<del> </del>	1		<del></del>		
EXAMINER NITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION		
	AJ33										Ye N		
	AK33		***								Ye N		
	AL33										Ye N		
	AM33										Ye.		
	ľ		ОТН	R (Inc	cludina Auti	hor. T	itle, Date, Pertinent Pa	ages, et	c.)				
	AN	<u>33</u>	Press Releas Headquarters				vo New Directors," Parl 9).	kervisior	n Marketing	and Manufac	turing		
	AO	<u>33</u>					ces Fourth Quarter and arters, 3 Pages (March			al Results," Pa	rkervision		
	АР	<u>33</u>					ement Offers New Auto arters, 2 Pages (April 1			Solution," Park	kervision		
	AQ	<u>33</u>	"Project COS Vol. LIV, No.					ss," Alta Frequenza: Scientific Review in Electronics, AEI,					
	AR	<u>33</u>	Razavi, B., <i>R</i>	F Micr	roelectronics	, Pren	tice-Hall, pp. 147-149 (	1998).	<u> </u>	144			
EXAMINER		<u> </u>	<u> </u>						DATE CON	ISIDERED			



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

	•					y 16, 2001	2681		
		_		U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA34	5,724,002	03/1	998	Hulic	k	329	361	
	AB34	5,724,653	03/19	998	Bake	r et al.	455	296	
	AC34	5,729,577	03/1	998	Cher		375	334	
	AD34	5,729,829	03/1	998	Talw	ar <i>et al</i> .	455	63	
	AE34	5,732,333	03/19	998	Cox et al.		455	126	
	AF34	5,736,895	04/19	998	Yu et al.		327	554	
	AG34	5,737,035	04/19	998	Rotze	oll	348	725	
	AH34	5,742,189	04/19	998	Yoshida et al.		327	113	
	Al34	134 5,748,683		05/1998		n et al.	375	347	
				FOREIGN	N PATI	NT DOCUMENTS			
EXAMINER NITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ34								Ye N
	AK34						RE	CEIVE	D Y
	AL34						AU	<b>620</b> 200	2 Ye
	AM34						Technol	gy Center	Y∈ 2600 N
		ОТ	HER (Inc	cluding Auti	hor, Ti	tle, Date, Pertinent Pa			
	AN	Brothers Li  Reeves, R.	mited, V	ol. 31, No. 3	73, pp.	collocation of Waveform 130-137 (March 1959) collocation of Waveform 204-212 (April 1959).			
	АР					cond-Pulse Generator v Vol. 11, No. 1, pp. 21-2			alanche
	AQ					ng of the Feed-through Symposium Digest, IEE			
	AR					se Analysis of MESFET EE, Vol. 37, No. 9, pp.			actions on
EXAMINER		<u> </u>					DATE CONS	IDERED	_

AUG 1 6 2002

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

						t t	y 16, 2001	2681			
			··		U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DATI	Ē	NAM	E	CLASS	SUB- CLASS	FILING DA	ΛΤΕ
	AA35	RE 3	35,829	06/19	998	Sano	erford, Jr.	375	200		
	AB35	5,76	0,645	06/19	998	Com	te et al.	329	304		
	AC35	5,76	4,087	06/19	998	Clark		327	105		
	AD35	5,76	7,726	06/19	98 Wang		327	356	<u> </u>		
<u> </u>	AE35	5,76	8,118	06/19	998	Faul	cet al.	363	72	<u> </u>	
	AF35	5,77	1,442	06/19	98	Wan	g et al.	455	93		
	AG35	5,77	7,692	07/19	98	Ghos	h	348	725		
	AH35	5,77	7,771	07/19	998	Smith	1	359	180		
· .	Al35	5,786,844			998	Roge	rs et al.	348	6		
					FOREIGN	I PATI	ENT DOCUMENTS				
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLA <sup>-</sup>	ΓΙΟΝ
	AJ35							<del></del>			Yes No
	AK35								CEIVE		Yes No
	AL35							AU	G 2 0 201	2	Yes No
	AM35							Technolo	gy Center	2600	Yes
			ОТНЕ	R (Inc	luding Auth	hor, Ti	tle, Date, Pertinent Page	es, etc.)	<u> </u>	L	
	AN	<u>35</u>	Jersey, includ	ding, fo	er example, C	Chapte	nmunication Systems, D. \r V, Pulse Modulation Sys	stems (1965).			<b>w</b>
	AO	35					, Vol. 19, No. 24, pp. 103:				
	AP	<u>35</u>					Wave Phase Locked Osci nd Publishers, pp. 238-24			3 Conference	)
	AQ	<u>35</u>		ons," 7	The Institution	n of Ei	a Robust Flexible Receiv ngineers Australia Commu 1990).				
	AR	<u>35</u>	Salous, S., "II /, IEE, Vol. 13				CW waveforms for wideb ine 1992).	and channel chara	ecterization,"	IEE Proceed	lings
EXAMINER	1 1		<u></u>					DATE CONSI	DERED		

OIPE		Pa
AUG 1 6 2002 FORM PTO-1449	ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
10/11/10/14/9	APPLICANT Sorrells et al.	
INFORMATION DISCLOSURE STATEMENT	FILING DATE May 16, 2001	GROUP 2681
U.S	S. PATENT DOCUMENTS	

						Ma	y 16, 2001		2681			
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DATI	≣	NAM	E		CLASS	SUB- CLASS	FILING DA	ATE
	AA36	5,79	3,801	08/19	998	Fertn	er		375	219		
-	AB36	5,79	3,818	08/19	98	Clayo	don <i>et al</i> .		375	326		
	AC36	5,80	2,463	09/19	998	Zuck	erman		455	208		
	AD36	5,80	9,060	09/19	998	Cafa	rella <i>et al.</i>		375	206		
	AE36	5,81	8,582	10/19	998	Ferna	andez <i>et al.</i>		356	318		
	AF36	5,82	5,254	10/19	98	Lee			331	25		
	AG36	5,83	4,985	11/19	98	Sund	egård		332	100		
	AH36 5,864,754 01				99	Hotto	1	455	455	280		
	AI36	5,88	1,375	03/19	99	Bond	s		455	118		
					FOREIGN	N PATE	ENT DOCUMENTS					
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	TION
	AJ36									RECEN	/FD	Yes No
	AK36	_								AUG 2 0	2002	Yes
	AL36 AM36								Tect	nology Cer	ter 2600	Yes No Yes
	711100											No
			ОТНЕ	R (Inc	luding Aut	hor, Ti	tle, Date, Pertinent P	ages, etc.	.)			
	AN	<u>36</u>	"Sampling Lo	ops Lo	ock Sources	to 23 (	Ghz," <i>Microwaves &amp; Ri</i>	F, Penton	Publishing,	p. 212 (Septe	ember 1990	).
	AO	<u>36</u>	Sasikumar, M Vol. 71, No. 8				ation in the Switched- 1983).	Capacitor	Biquad," <i>Pr</i>	oceedings of	the IEEE, IE	≣EE,
	АР	<u>36</u>	Saul, P.H., "A ESSCIRC 79				and Hold Switch," Fift	h Europea	n Solid Sta	te Circuits Co	onference-	
	AQ	36					nt-End with Integrated ts Council, Vol. 31, No					<u></u>
	AR	<u>36</u>	Shen, X.D. ar path," <i>Radio</i> s	nd Vila Scienc	r, E., "Anom e, American	alous t Geop	transhorizon propagati hysical Union, Vol. 30,	on and me No. 5, pp.	eteorologica . 1467-1479	I processes o	of a multilink -October 19	95).
EXAMINER			<u> </u>					D	ATE CONS	IDERED		

EXAMINER DATE CONSIDERED

Page 37 of 56 APPLICATION NO. ATTY. DOCKET NO. 09/855,851 1744.1260001 FORM PTO-1449 APPLICANT Sorrells et al. TION DISCLOSURE STATEMENT FILING DATE GROUP 2681 May 16, 2001 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER **CLASS AA37** 5,892,380 04/1999 327 Quist 172 **AB37** 5,894,239 327 176 04/1999 Bonaccio et al. AC37 455 76 5,896,562 04/1999 Heinonen 9 AD37 5,900,747 **Brauns** 327 05/1999 41 AE37 5,901,054 05/1999 Leu et al. 363 375 347 AF37 5,901,187 05/1999 Iinuma AG37 5,901,344 05/1999 Opas 455 76 **AH37** 5,901,347 05/1999 Chambers et al. 455 234.1 05/1999 **AI37** 5,901,348 Bang et al. 455 254 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ37 Yes No RECEIVED AK37 Yes No AUG 2 0 2002 AL37 Yes Nο Technology Center 2600 **AM37** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation ΑN 37 Mechanisms," Electronics Letters, IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993). Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid AO 37 of the parabolic Equation and Ray Tracing Methods," IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation, IEE, pp. 4/1-4/7 (March 8, 1996). Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," ΑP <u>37</u> Electronics Letters, IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996). Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," IEEE International Solid State AQ 37 Circuits Conference, IEEE, Vol. 39, pp. 54-55 and 417 (February 1996).

EXAMINER

DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions,"

Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 451-455

AR

<u>37</u>

(April 4-7, 1989).



TION DISCLOSURE STATEMENT

APPLICATION NO. ATTY. DOCKET NO. 1744.1260001 09/855,851 APPLICANT Sorrells et al. GROUP FILING DATE

							y 16, 2001		2681			
					U.S. P.	ATEN	T DOCUMENTS					
EXAMINER INITIAL		DOCUME NUMBER		DATE	Ξ	NAM	E		CLASS	SUB- CLASS	FILING D	ATE
	AA38	5,901,349	9	05/19	99	Gueg	naud <i>et al.</i>		455	302		
	AB38	5,903,178	3	05/19	999	Miyat	suji <i>et al</i> .		327	308		
	AC38	5,903,18	7	05/19	99	Clave	erie <i>et al.</i>		329	342		
	AD38	5,903,19	5	05/19	99	Salvi	et al.		331	16		
	AE38	5,903,42	1	05/19	99	Furutani et al. Sakamoto et al.		361	58			
	AF38	5,903,55	3	05/19	99				370	338		
	AG38 5,903,595 05				99	Suzu	ki		375	207		
	AH38	5,903,609	9	05/19	99	Kool	et al.		375	261		
	AI38	5,903,82	7	05/19	99	Kenn	an <i>et al</i> .		455	326		
					FOREIGN	N PATE	NT DOCUMENTS					
EXAMINER NITIAL		DOCUME	ENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	OITA
	AJ38								F	ECEIV	FD.	Ye N
	AK38								,			Ye N
	AL38	3							Techn	OG 2 0 2 Ology Cente	<del>002</del>	Ye N
	AM38					i			1661111	<del>Viogy Cent</del> e	72600	Ye
			OTHE	R (Inc	luding Auti	hor, Ti	tle, Date, Pertinent P	ages, e	etc.)			
-	AN	So Vol	. SC-9, No	o. 6, pp	). 381-387 ([	Decem						
	AO				, "Pushing H 220 and 222		Rates," Defense Elec 1985).	etronics	, EW Commur	ications, Vol.	17, No. 5,	pp.
	АР	38 Ste	phenson, . 106-110 (	A.G., " March	Digitizing m 27, 1972).	ultiple	RF signals requires an	optimi	um sampling ra	ate," <i>Electron</i>	ics, McGra	w-Hil
	AQ	38 Sug Am	garman, R erican Ins	., "San titute o	npling Oscill of Physics, V	oscope ol. 28	e for Statistically Varyii No. 11, pp. 933-938 (I	ng Puls Novemi	es," <i>The Revie</i> ber 1957).	ew of Scientifi	c Instrume	nts,
	AR						nultipath microwave ch	hannels	s," Radio Scien	ce, Americar	ı Geophysi	cal
XAMINER									DATE CONS	IDERED		

RMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE

GROUP

							LING DATE y 16, 2001		2681	P	
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA39	5,90	3,854	05/19	999	Abe	et al.		455	575	
	AB39	5,90	5,449	05/19	999	Tsub	ouchi <i>et al.</i>		340	925.69	
	AC39	5,90	7,149	05/19	999	Marc	kini		235	487	
	AD39	5,90	7,197	05/19	999	Faulk			307	119	
	AE39	5,91	1,116	06/19	999	Noss	witz		455	83	
	AF39	5,91	1,123	06/19	999	Shaf	er <i>et al.</i>		455	554	
•	AG39	5,91	4,622	06/19	999	Inoue	)		327	172	
	AH39	5,92	0,199	07/19	999 Sai		r		324	678	
	Al39	39 5,943,370		08/19	999	Smitl	1		375	334	
	•				FOREIGN	PATI	ENT DOCUMENTS			•	
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIC
	AJ39										Y
	AK39									RECEN	/FD '
	AL39									AUG 2 0	Y
	AM39								Tect	Mology Cen	l 7
	. <u>l</u>		OTHE	R (Inc	L Cludina Aut	hor. Ti	tle, Date, Pertinent Pa	aes. e		INDIVITY LED	t <del>or 2000</del>
	AN	<u>39</u>	Takano, T., "I (1984).	NOVE	L GaAs Pet	Phase	Detector Operable To K	(a Ban	d," <i>IEEE MT-</i>	-S Digest, IEE	E, pp. 381-383
	AO	<u>39</u>	Tan, M.A., "B <i>Systems- I: F</i> 275 (April 199	undan	atic Transco	nducta y and i	ance Switched-Capacito Applications, IEEE Circu	r Filter uits and	s," <i>IEEE Tra</i> d Systems So	nsactions on Cociety, Vol. 40,	Circuits and No. 4, pp. 272
	AP	<u>39</u>					stem AM Stereo Decode cs Society, Vol. CE-32,				
	AQ	39					Predictability of Long H , pp. 571-572 (March 12			K-band Signals	s Over the Sea,
,	AR	<u>39</u>	Tawfik, A.N. a Meteorologica of the IEE, pp	ai Para	meters," <i>Eig</i>	hth In	of Transhorizon Signal ternational Conference or ril 2, 1993).	Level	Strength with	Localized Su ropagation, Ele	rface ectronics Divisio
EXAMINER	1 1		L						DATE CONS	SIDERED	-



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE May 16, 2001	GROUP 2681

						Ma	y 16, 2001		2681			-
					U.S. P.	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT 1BER	DATI	E	NAM	E	CLA	ss	SUB- CLASS	FILING DA	ATE
	AA40	4,01	7,798	04/19	977	Gord	y et al.	325		42		
	AB40	4,03	2,847	06/19	977	Unka	uf	325		323		
	AC40	4,25	3,067	02/19	981	Caple	es et al.	329		110		
	AD40	4,39	3,395	07/19	983	Hack	e et al.	358		23		
	AE40	4,81	6,704	03/19	989	Fiori,	Jr.	307		519		
	AF40	4,84	1,265	06/19	989	Wata	nabe <i>et al.</i>	333		194		
	AG40	4,94	3,974	07/19	990	Motamedi		375	,	1		
	AH40	5,11	5,409	05/19	992	Step	itepp			841		
	Al40	5,35	3,306	10/19	994	Yama	amoto	375		14		
					FOREIGN	PATE	NT DOCUMENTS	•		^		
EXAMINER INITIAL	NITIAL   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   S								SUB- CLASS	TRANSLA	TION	
	AJ40			-								Yes No
	AK40									RECE	VED	Yes No
	AL40									AUG 2 0	2002	Yes No
	AM40							,	Tect	nology Ce	ter 2600	Yes No
		•	ОТНЕ	R (Inc	luding Auth	nor, Ti	tle, Date, Pertinent Pag	es, etc.)		*		`
	AN	<u>40</u>					tructure of a Transhorizo and Propagation (ICAP					pril
	AO	<u>40</u>					f Duration and Intensity i, No. 7, pp. 474-476 (Ma			crowave Tra	nshorizon Se	ea-
	АР	<u>40</u>	Path Loss, Di	uration	of Events, a	and Th	anshorizon Measuremen eir Modeling," <i>IEEE Trar</i> ol. 41, No. 11, pp. 1491-1	nsactions on .	Antenn	as and Prop	e Sea- Part agation, IEE	1: E
	AQ	<u>40</u>	Temes, G.C. IEEE, Vol. 71	and Ts , No. 8	sividis, T., "T 3, pp. 915-91	he Sp 6 (Aug	ecial Section on Switche gust 1983).	d-Capacitor (	Circuits	s," <i>Pr</i> oceedin	gs of the IEL	EE,
-	AR	<u>40</u>	Thomas, G.B	., Calc	eulus and And	alytic (	Geometry, Third Edition,	Addison-We	sley Pu	ıblishing, pp.	119-133 (19	960).
EXAMINER								DATE	CONSI	DERED		

AU6 1 6 2002

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

PADEMIN							LING DATE y 16, 2001		GRO 268		
					U.S. P		T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA41	5,5	15,014	05/1	996	Trou	tman		332	178	
	AB41	5,56	63,550	10/19	996	Toth			329	347	
	AC41	5,5	74,755	11/1	996	Pers	ico		375	295	
	AD41	5,60	04,592	02/1	997	Kotic	lis et al.		356	357	
	AE41	5,63	38,396	06/19	06/1997		Klimek		372	92	
	AF41	5,67	75,392	10/19	997	Nayebi <i>et al.</i>		348	584		
	AG41	5,694,096		12/19	997	Ushi	roku <i>et al</i> .		333	195	
	AH41	5,75	5,757,870		998 Miya		et al.		375	367	
	Al41		68,323 06/19		998	<del>+ -</del>	ger <i>et al.</i>		375	355	
					FOREIGN	N PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ41 AK41									RECE	Yes No
	AN41									ł	1
	AL41									AUG 2	l tes
	AM41									rophinology C	enter 2500 Yes
			ОТН	ER (Inc	cluding Aut	hor, T	itle, Date, Pertinent Pa	ages, et	c.)	•	
	AN	<u>41</u>					ve Mixer," <i>16<sup>th</sup> Europea</i> oer 8-12, 1986).	n Micro	wave Confe	erence, Microwa	ave Exhibitions
	AO	<u>41</u>	Transactions	on Ult	rasonics, Fe	erroele	Signal Analysis Based ctrics, and Frequency Co. 1, pp. 1-3 (January 1	Control,			
V See	АР	<u>41</u>	Tsividis, Y. a (1985).	nd Ant	ognetti, P. (E	Ed.), <i>D</i>	esign of MOS VLSI Cir	cuits foi	<sup>-</sup> Telecomm	<i>unications</i> , Pre	entice-Hall, p. 304
	AQ	<u>41</u>	Tsividis, Y., "				nd Analysis of Switched gust 1983).	d-Capad	citor Circuits	s," Proceedings	s of the IEEE,
	AR	<u>41</u>	and 2.6 Ghz	Band F	Radio Comm	nunicat	tudy on a Direct Conve ion Systems," <i>41<sup>st</sup> IEEE</i> 7-462 (May 19-22, 1991	E Vehici	eceiver Fro	nt-End for 280 logy Conference	MHZ, 900 MHZ, ce, IEEE
EXAMINER		<u>_</u>	<u></u>						DATE CON	SIDERED	

AUG 1 6 2002

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851

APPLICANT Sorrells et al.

FILING DATE GROUP

2681

						y 10, 2001		2001			
				U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL		DOCUME NUMBER		E	NAM	E		CLASS	SUB- CLASS	FILING D	ATE
	AA42	5,770,985	06/1	998	Ushi	oku <i>et al</i> .		333	193		
	AB42	5,778,022	07/1	998	Walley		375	206			
	AC42	5,812,546	09/1	998	Zhou	et al.		370	342		
	AD42	5,818,869	10/1	998	Miya	et al.		375	206		
-	AE42	5,844,449	12/1	998	Aber	o et al.		332	105		
·	AF42	5,872,446	02/1	999	Cran	ford, Jr. <i>et al.</i>		323	315		
	AG42	5,909,447	06/1	999	Cox	et al.		370	508	<u> </u>	
	AH42	5,933,467	08/1	999	Sehi	er et al.		375	350		
	Al42	5,952,895	09/1	999	McC	une, Jr. et al.		332	128		
				FOREIGN	N PATI	NT DOCUMENTS					
EXAMINER NITIAL		DOCUME	NT NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	ATIOI
	AJ42		·						DECE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ye N
	AK42								RECE	İ	Ye N
	AL42								AUG 2		Ye N
	AM42			İ				10	echnology C	enter 260	
						tle, Date, Pertinent P			.1	l	N <sub>1</sub>
	AN	Elec	tronic Devices,	" IEDM Tech	nnical L	d Subpicosend Optoel Digest, IEEE, pp. 597-6	600 (Dec	cember 5-7,	1983).		
	AO	42 Van Lette	de Kamp, M.M e <i>rs</i> , IEE, Vol. 3	J.L., "Asymr 4, No. 11, pp	netric : ). 1145	signal level distribution -1146 (May 28, 1998).	due to	tropospheric	scintillation,"	Electronics	
	АР	42 Vass Elec	seur, H. and Va tronics Letters,	inhoenacker, IEE, Vol. 34	, D., "C , No. 4	characterization of trop , pp. 318-319 (Februa	ospheric ry 19, 19	c turbulent la 998).	yers from radi	iosonde dat	a,"
Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society pp. 1027-1039 (November 1997).											
	AR	42   Sign		<i>ator</i> , Thesis	for Deg	Receiver Architecture of Receiver Architecture of Master's of Eng					
XAMINER							—т	DATE CONS	SIDERED	<del></del>	

May 16, 2001

AUG 1 6 2002 TRADEMIN FORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001 GROUP 2681

					-		y 10, 2001		12001			
					U.S. P	ATEN	T DOCUMENTS			·	<b>,</b>	
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DA	TE
	AA43	5,96	0,033	09/1	999	Shib	ano <i>et al</i> .	375	207			
	AB43	6,04	1,073	03/2	000	Davidovici et al.		375	148			
	AC43	6,05	4,889	04/20	000	Koba	yashi		327	357		
	AD43	6,08	4,922	07/20	000	Zhou	et al.		375	316		
	AE43	6,12	5,271	09/20	000	Rowl	and <i>et al</i> .		455	313		
_	AF43	6,14	7,340	11/20	000	Levy			250	214 R		
	AG43	6,14	7,763	11/20	000	Stein	lechner	•	356	484	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
	AH43	6,15	0,890	11/20	000	Dam	gaard <i>et al.</i>		331	14		
	Al43	5,12	6,682	06/19	992	Wein	berg <i>et al</i> .		329	304		
					FOREIGN	I PATI	NT DOCUMENTS					- 1
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	TION
	AJ43						,,,					Yes No
	AK43									RECEI		Yes No
	AL43					_				AUG 2 0	2002	Yes No
	AM43								Tect	nology Ce	ter 2600	Yes No
			OTHE	R (Inc	ludina Autl	nor. Ti	tle, Date, Pertinent P	ages.	etc.)			
	AN	<u>43</u>	International (17, 1997).  Vilar, E. et al.	Confei	rence on Ant	ennas asure I	and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel and Propagation, Electric Active MM-Wave Satel Active MM-Wave Sat	etronics	s Division of the	IEE, pp. 2.9	8-2.101 (Apr	ril 14-
			pp. 8-1 - 8-16	(Octo	ber 4-7, 198	3).	or the Lewer Atmosphi	576 17111	dending Nadio		gation, AGA	
	АР	<u>43</u>					and Experimental Stud Propagation, IEEE, Vol					s,"
	AQ	<u>43</u>					izon Experiment at 11 B Division of the IEE, p					
	AR  Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," <i>Electronics Letters</i> , IEE, Vo 8, No. 20, pp. 509-511 (October 5, 1972).								Vol.			
EXAMINER	11								DATE CONSI	DERED		

AU6 1 6 2002 ORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

GROUP

FILING DATE May 16, 2001 2681 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME **CLASS** FILING DATE SUB-NUMBER **CLASS AA44** 5,841,811 11/1998 Song 375 235 **AB44** 4,051,475 09/1977 Campbell 343 180 AC44 5,953,642 09/1999 Feldtkeller et al. 455 195.1 AD44 4,653,117 03/1987 Heck 455 209 AE44 5,859,878 01/1999 Phillips et al. 375 316 AF44 5,894,496 04/1999 Jones 455 126 AG44 5,915,278 06/1999 Mallick 73 658 **AH44** 02/2000 375 206 6,028,887 Harrison et al. Al44 6,081,691 06/2000 455 Renard et al. 12.1 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-**TRANSLATION** CLASS AJ44 Yes No AK44 Yes No AL44 Yes Technology denter 2600 Yes **AM44** No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric AN 44 turbulence," Proceedings of the 25th European Microwave Conference, Nexus House, pp. 114-119 (1995). Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 39, AO 44 No. 9, pp. 1306-1312 (September 1991). Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," Fourth International AP 44 Conference on Antennas and Propagation (ICAP 85), Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985). Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," Electronics Division Colloquium AQ 44 on Teaching Antennas and Propagation to Undergraduates, IEÉ, pp. 7/1-7/6 (March 8, 1988). Vilar, E. et al., "CERS\*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," Electronics Division Colloquium on CERS- Communications Engineering Research Satellite, IEE, pp. 10/1-10/10 AR 44 (April 10, 1984). **EXAMINER** DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

RMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE

GROUP

TA DE							LING DATE y 16, 2001		GROUE 2681	•		
					U.S. P	ATEN	T DOCUMENTS		<u> </u>			
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE	CL	ASS	SUB- CLASS	FILING DA	TE
	AA45	6,12	21,819	09/2	000	Tray	lor	32	7	359		
	AB45	6,14	14,236	11/2	000	Vice et al.  Durec		32	7	113		
	AC45	6,14	14,846	11/2	000			459	5	323		
	AD45	6,17	75,728 B1	01/2	01 Mitama		45	5	323			
	AE45	5,70	5,949	01/1	998	Alely	runas <i>et al.</i>	329	9	304		
	AF45	5,88	33,548	03/1	999	Assa	nrd <i>et al.</i>	329	9	306		
	AG45	4,48	34,143	11/19	984	Fren	ch <i>et al.</i>	329	<del></del>	50		
	AH45	5,84	11,324	11/19	998	Willia	ams	33	1	17		
	Al45	4,85	55,894	08/19	989	Asal	ni et al.	363	3	157		
	L		<u> </u>		FOREIGN	N PAT	ENT DOCUMENTS	. •				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLA	TION
	AJ45											Yes No
	AK45									REC	EIVED	Yes No
	AL45									AUG 2	<b>0</b> 2002	Yes No
	AM45								7	echnology (	Center 260	Yes 00 No
		•	ОТНЕ	R (Inc	cluding Aut	hor, T	itle, Date, Pertinent Pag	es, etc.)				
	AN	<u>45</u>	Vilar, E. and l	Moulsi etters,	ey, T.J., "Co IEE, Vol. 21	ommer i, No.	ut and Reply: Probability [ 14, pp. 620-622 (July 4, 1	Density Fun 985).	ction of	Amplitude So	cintillations,"	
	АО	<u>45</u>					l Rate Duration Distributi -1924 (September 24, 19		IFE and	l Barcelona,"	Electronics	
	АР	<u>45</u>	Vilar, E., "Dej No. 9, pp. 732				nsmittances in Indoor Co	ommunicati	ons," <i>El</i>	ectronics Lett	<i>ers</i> , IEE, Vo	I. 27,
	AQ	<u>45</u>		Intern	ational Conf		Dependence of Amplitude on Antennas and Propag					
	AR	<u>45</u>	Vilar, E. et al. European Mid 1988).	, "Exp	erimental Sy ve Conferenc	rstem a	and Measurements of Tra crowave Exhibitions and F	anshorizon Publishers l	Signal L .td., pp.	evels at 11 G 429-435 (Sep	hz," <i>18<sup>th</sup></i> otember 12 -	15,
EXAMINER			1					DATE	CONS	IDERED		



ORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE May 16, 2001	GROUP 2681

						Ma	y 16, 2001		2681			
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL			UMENT IBER	DATI	<b>=</b>	NAM	E	CL	ASS	SUB- CLASS	FILING DA	TE
	AA46	5,319	9,799	06/19	994	Morita		455	5	78		
	AB46	5,80	1,654	09/19	98	Trayl	or	341		144		
	AC46	5,369	9,404	11/19	94	Galto	n	341		143		
	AD46	3,716	5,730	02/19	73	Cern	y, Jr.	307	,	295		
	AE46	4,080	0,573	03/19	978	Howe	ell	325	5	439		
	AF46	4,334	4,324	06/19	82	Hoov	er	455	5	333		
	AG46	4,369	9,522	01/19	983	Cern	y, Jr. <i>et al.</i>	455	5	333		
	AH46	5,465	5,418	11/19	95	Zhou	et al.	455	5	332		
	Al46	5,513	3,389	04/19	996	Rees	er et al.	455	5	311		
					FOREIGN	PAT	NT DOCUMENTS			_		
EXAMINER INITIAL		DOC	UMENT NUME	BER	DATE		COUNTRY	CL	ASS	SUB- -CLASS	TRANSLAT	TION
	AJ46									HECEI		Yes
	AK46								_	AUG 2 0	_	Yes No
	AL46								lect	nology Cer	ter 2600	Yes No
	AM46											Yes No
			OTHE	R (Inc	·ludina Autl	or Ti	tle, Date, Pertinent Pa	ges etc.)				
	AN	<u>46</u>	Vilar, E. and Ithe 4th Europe 1974).	Matthe	ws, P.A., "In crowave Col	nporta nferen	nce of Amplitude Scintill ce, Microwave Exhibition	lations in Mil ns and Publi	limetric shers, p	Radio Links," p. 202-206 (\$	Proceeding September 1	s of 0-13,
	AO	<u>46</u>	Parameters in	n an Ea	arth-Space F	Path,"	nt and Modeling of Scint EEE Transactions on A I, pp. 340-346 (April 198	ntennas and				<b>.</b>
	АР	<u>46</u>					ement of Phase Fluctua , pp. 566-568 (Septemb		metric F	Radiowave Pr	opagation,"	
	AQ  Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communication  Millimetre Band," Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IE  5/1-5/8 (January 17, 1991).											
	AR	<u>46</u>	Vilar, E. and F Limitations," E 23, 1986).	-aulkn E <i>lectr</i> o	er, N.D., "Ph nics Division	ase N 7 Collo	oise and Frequency Sta quium on Low Noise Os	ability Measu scillators and	rements I Synthe	. Numerical 1 sizer, IEE, 5	Fechniques a	and ary
			****									

AU6 1 6 2002 MADEMAN FORMATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001

GROUP 2681

						Ma	y 16, 2001		2681			
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE		CLASS	SUB- CLASS	FILING DATE	
	AA47	5,95	9,850	09/1	999	Lim			363	17		
	AB47	5,15	7,687	10/19	992	Tymes			375	1		
	AC47	5,94	5,660	08/1	999	Naka	suji <i>et al</i> .		235	462.46		
	AD47	6,09	1,939	939 07/2000		Banh		455	102			
	AE47	6,09	1,941	07/20	000	Mori	yama <i>et al.</i>		455	126		
	AF47	6,09	8,886	08/20	000	Swift	et al.		235	472.01		
	AG47	6,21	5,475 B1	04/20	001	Mey	erson <i>et al.</i>		345	173		
	AH47	6,04	9,706	04/20	000	Cool	et al.		455	313	<b>AFIAFD</b>	
	Al47	6,06	1,551	05/20	000	Sorre	ells <i>et al</i> .		455	118 ALIC	2 0 2002	
					FOREIGN	N PAT	ENT DOCUMENTS					
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	Technolog SUB- CLASS	y Center 2600 TRANSLATION	
	AJ47										Yes No	
	AK47										Yes No	
	AL47										Yes No	
	AM47										Yes No	
		1	OTU	D (In.	l	h T	l itle, Date, Pertinent Pa		4- \		110	
	AN	<u>47</u>	Vilar, E. and	Senin,	S., "Propag	ation p	phase noise identified us October 23, 1997).		-	downlink," <i>E</i>	lectronics Letters,	
	AO	<u>47</u>	(Barcelona) a	nd Tro	pical (Belen	n) Reg	ion: Dependence Upon ions," <i>Tenth Internation</i> 230-2.233 (April 14-17,	nal Con	op Size Distr ference on A	ibution in Tem	nperate Propagation,	
	АР	<u>47</u>	AGARD Conf	erence	e Proceeding	gs No.	Modeling and Measurel 332: Propagation Aspe October 18-22, 1982).	ment -	A Tool for Re Frequency Sh	emote-Sensing paring, Interfe	g Slant Paths," rence And System	
	AQ	<u>47</u>				ations on Digital Transmission Through Turbulent Atmosphere," <i>International Conference cation Systems Technology,</i> Electronics Division of the IEE, pp. 169-187 (April 7-10,						
	AR  Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London,"  International Conference on Antennas and Propagation Part 2: Propagation, IEE, pp. 36-40 (November 28-30, 1978).											
EXAMINER			<u> </u>						DATE CONS	SIDERED		

MATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

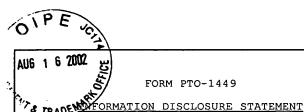
APPLICANT

Sorrells <u>et al.</u>

GROUP

FILING DATE 2681 May 16, 2001 **U.S. PATENT DOCUMENTS EXAMINER CLASS** INITIAL DOCUMENT DATE NAME SUB-FILING DATE NUMBER **CLASS AA48** 6,061,555 455 313 05/2000 Bultman et al. AB48 455 118 6,091,940 07/2000 Sorrells et al. 455 118 08/18/1999 AC48 6,266,518 B1 07/2001 Sorrells et al. AD48 Sorrells et al. 455 118 08/23/1999 6,353,735 B1 03/2002 **AE48** 6,370,371 B1 04/2002 Sorrells et al. 455 323 03/03/1999 89 REC AF48 Stein 455 5,628,055 05/1997 <del>EIVED</del> AG48 5,678,220 10/1997 Fournier 455 302 **AH48** 5,926,065 07/1999 Wakai et al. 329 304 AUG 2002 11/1971 325 Al48 3,622,885 Oberdorf et al. 40 rechnology Center 2600 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION CLASS AJ48 Yes No AK48 Yes No AL48 Yes No AM48 Yes OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. et al., "Wideband Characterization of Scattering Channels," Tenth International Conference on AN <u>48</u> Antennas and Propagation, Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997). Vollmer, A., "Complete GPS Receiver Fits on Two Chips," Electronic Design, Penton Publishing, pp. 50, 52, 54 AO 48 and 56 (July 6, 1998). Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348, Hewlett Packard, pp. 1-11 AP <u>48</u> (November 1986). Wan, K.W. *et al.*, "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," *Proceedings of the 19<sup>th</sup> European Microwave Conference*, Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989). AQ <u>48</u> Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and AR 48 Synthesis of Oscillator Phase Noise," Proceedings Of the 43<sup>rd</sup> Annual Symposium on Frequency Control, IEEE, pp. 331-335 (1989). **EXAMINER** DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in



ATTY. DOCKET NO. 1744.1260001

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE May 16, 2001 GROUP 2681

						Ma	y 16, 2001		2681		
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA49	4,48	3,017	11/19	984	Ham	Hampel et al.		382	17	
	AB49	6,42	1,534 B1	07/20	002	Cool	et al.		455	313	08/18/1999
	AC49	6,33	0,244 B1	12/20	001	Swa	tz et al.		370	401REC	EMA 458
	AD49	4,38	4,357	05/19	5/1983		da et al.		375	81	
	AE49	4,47	0,145	09/19	984	Willia	ams		375	1 AUG 2	0 2002
	AF49	5,60	0,680	02/19	997	Mish	ima et al.		375	327	-
	AG49	5,60	6,731	02/19	997	Pace	et al.		455	260 1010gy	Center 2600
	AH49	5,87	0,670	02/19	999	Riple	y et al.		455	304	
	Al49	6,31	4,279 B1	11/20	001	Mohi	ndra		455	304	06/29/1998
					FOREIGN	N PATI	ENT DOCUMENTS		·• · · · · · · · · · · · · · · · · · ·		
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ49										Yes No
	AK49										Yes No
	AL49										Yes No
	AM49										Yes No
	<u> </u>	-	OTHE	R (In	luding Aut	hor T	tle, Date, Pertinent Pag	os ota	2.)	1	110
	AN	<u>49</u>					rizon Channel Sounder a ders - Technology and M				
	AO	<u>49</u>	Wang, H., "A Solid-State C	1-V M ircuits	ultigigahertz Society, Vol	: RF M I. 33, N	ixer Core in 0.5 - $\mu$ m CM lo. 12, pp. 2265-2267 (De	OS," <i>IE</i> ecembe	EEE Journa er 1998).	l of Solid-State	e Circuits, IEEE
	АР	<u>49</u>	Watson, A.W Receivers," <i>D</i> 367-373 (Apri	igital l	Processing of	of Sign	sion and Signal Processi als in Communications, I	ing for nstitution	High Perfort on of Electro	mance Commonic and Radio	unications Engineers, pp.
	AQ 49 Weast, R.C. et al. (Ed.), Handbook of Mathematical Tables, Second Edition, The Chemical Rubber Co., pp. 48485 (1964).								ber Co., pp. 480-		
	AR 49 Wiley, R.G., "Approximate FM Demodulation Using Zero Crossings," <i>IEEE Transactions on Communications</i> , IEEE, Vol. COM-29, No. 7, pp. 1061-1065 (July 1981).										
EXAMINER	<u> </u>	¥! 'n	l		<del></del>				DATE CONS	SIDERED	W 19 1 4.

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

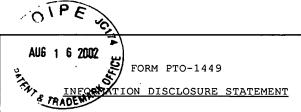
51PE

FORM PTO-1449

/ NATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

PADEM					Ma	у 16, 2001		2681		
				U.S. F	ATEN	T DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA50	09/525,615			Sorrells et al.					03/14/2000
	AB50	10/086,367				Sorrells et al.			DEOL	.03/04/2002
	AC50								HEU	IVED
	AD50	ı							AUG 2	0 2002
	AE50	<u> </u>							7,00	
	AF50								<u>Technology</u>	Center 2600
	AG50			·	ļ					
	AH50	ļ			↓	·		1		
	AI50	<u> </u>	l		<u> </u>			·		
	<del></del>			FOREIGI	N PAT	ENT DOCUMENTS			<del></del>	1
EXAMINER INITIAL		DOCUMENT	NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ50									Ye N
	AK50									Yes No
	AL50									Ye: No
	AM50									Ye: No
			OTHER (Inc	cluding Aut	thor, T	itle, Date, Pertinent Pa	ages, etc	s.)		
	AN	50 Worthm	nan, W., "Co	nvergence	Agair	n," <i>RF Design</i> , Primedia	a, p. 102	(March 199	9).	
	AO	50 Young,	I.A. and Hoo	dges, D.A., ' lid-State Circ	"MOS : cuits, II	Switched-Capacitor And EEE, Vol. SC-14, No. 6	alog Sam , pp. 102	npled-Data ( 20-1033 (De	Direct-Form Rocember 1979)	ecursive Filters,"
	АР	50 Transla	tion of Spec	ification and	l Claim	s of FR Patent No. 224	5130, 3 <sub>1</sub>	pages.		
AQ 50 Fest, Jean-Pierre, "Le Convertisseur A/N Revolutionne Le Recepteur Radio," <i>Electronique</i> , JMJ (Publisher), No. 1995, 19										J (Publisher), No
	AR	50 Transla	tion of DE P	atent No. 35	5 41 03	1 A1, 22 pages.				
EXAMINER		<u> </u>					10	DATE CONS	SIDERED	<u> </u>



	rage of of or
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

						Ma	y 16, 2001		1 2 6 8 1		
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE		CLASS	SUB- CLASS	FILING DATE
	AA51	1				1					
	AB51	1									-
	AC51										
	AD51						_		F	ECEIV	FD
	AE51										
	AF51									AUG 2 0	<b>2</b> 002
	AG51										
	AH51								iech	ology Cent	er 2600
	AI51	1									<u> </u>
					FOREIGN	PAT	ENT DOCUMENTS	`			
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ51										Yes No
	AK51										Yes No
	AL51										Yes No
-	AM51										Yes No
-			ОТН	R (Inc	cluding Auti	hor, T	itle, Date, Pertinent Pa	ages, etc	:.)		
	AN	<u>51</u>	Translation o	f EP P	atent No. 0 7	732 80	3 A1, 9 pages.				
	AO	<u>51</u>	Fest, Jean-Pi 54, 3 pages (	erre, " Decen	The A/D Cor nber 1995).	nverte (Trans	Revolutionizes the Raslation of Doc. AQ50).	dio Rece	iver," <i>Electr</i>	onique, JMJ (	Publisher), No.
,	АР	<u>51</u>	Translation of	Germa	an Patent No.	. DE 19	97 35 798 C1, 8 pages.				
	AQ	<u>51</u>	Miki, S. and N (April 30, 195		ama, R., <i>Mo</i> o	dulatio	n System II, Common E	Edition 7,	Kyoritsu Ρι	ıblishing Co.,	Ltd., pp. 146-154
	AR	<u>51</u>	Miki, S. and N (April 30, 195	S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-1-30, 1956). (Partial Translation of Doc. AQ51).							
FXAMINER			<u> </u>					1	ATE CONS	IDEBED	

MATION DISCLOSURE STATEMENT

FORM PTO-1449

ATTY.	DOCKET	NO.
1744.	1260001	

APPLICATION NO. 09/855,851

APPLICANT

Sorrells et al.

FILING DATE

GROUP

							y 16, 2001		2681				
					U.S. P	ATEN	T DOCUMENTS						
EXAMINER INITIAL				DAT	E	NAME			CLASS	SUB- CLASS	FILING DATE		
	AA52												
	AB52												
	AC52												
	AD52												
	AE52									RECEI	VFD		
	AF52									ļ			
·	AG52							-		AUG 2 0	2002		
	AH52												
	AI52								ieci	nology Ce	nter 2600		
					FOREIGI	N PAT	ENT DOCUMENTS		!				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	`	CLASS	SUB- CLASS	TRANSLATION		
	AJ52										Yes No		
	AK52										Yes No		
	AL52										Yes No		
	AM52										Yes No		
			ОТН	R (Inc	cluding Aut	hor, T	itle, Date, Pertinent Pa	ges, etc	;.)	ı			
	AN	<u>52</u>	Rabiner, L.R. and 40-46 (1	and G 975).	Gold, B., <i>The</i>	ory Ar	nd Application Of Digital	Signal F	Processing, F	Prentice-Hall,	Inc., pp. xiii-xii		
	AO	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 08-032556, from http://www1.ipdl.jpo.go.jp, 2 Pages (February 2, 1996 - Date of publication of application).										
	AP	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 08-139524, from http://www1.ipdl.jpo.go.jp, 2 Pages (May 31, 1996 - Date of publication of application).										
AQ 52 English-language Abstract of Japanese Patent Publication No. 59 Pages (August 18, 1984 - Date of publication of application).								. 59-144	59-144249, from <i>http://www1.ipdl.jpo.go.jp,</i> 2				
	AR	<u>52</u>	English-langu Pages (Marci	age A 1 8, 19	bstract of Ja 88 - Date of	panes	e Patent Publication No. ation of application).	. 63-054	.002, from <i>ht</i>	tp://www1.ipo	dl.jpo.go.jp, 2		
EXAMINER			1		-				ATE CONS	DERED			

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

	Page 53 OI 56
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

MAUL						LING DATE y 16, 2001		GROU 2681			
······	···· <del>···</del>	- <del></del>	<del></del>	U.S. F		T DOCUMENTS					
EXAMINER INITIAL		DOCUMEN' NUMBER	T DAT	E	NAM	NAME			SUB- CLASS	FILING DATE	
	AA53	-				· · · · · · · · · · · · · · · · · · ·					
	AB53										
*	AC53										
	AD53	-			1				RECE	VED	
	AE53										
	AF53								AUG 2 0	2002	
	AG53										
	AH53							Te	chnology Co	nter 2600	
	AI53					•					
				FOREIG	N PATE	NT DOCUMENTS		,			
EXAMINER INITIAL		DOCUMENT NU		DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
	AJ53									Yes No	
	AK53									Yes No	
	AL53									Yes No	
	AM53									Yes No	
		•	OTHER (In	cluding Aut	thor, Ti	tle, Date, Pertinent Pa	ages, e	etc.)	•		
- 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	AN	53 Englis Pages	h-language <i>A</i> (August 23,	Abstract of Ja 1994 - Date	apanes	e Patent Publication No ication of application).	o. 06-2	37276, from <i>i</i>	http://www1.ipo	dl.jpo.go.jp, 2	
	AO	53 Englis Pages	English-language Abstract of Japanese Patent Publication No. 08-023359, from http://www1.ipdl.jpo.go.jp, 2 Pages (January 23, 1996 - Date of publication of application).								
	АР	53 Transl	Translation of Japanese Patent Publication No. 47-2314, 7 pages.								
	AQ	53 Partial	Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages.								
, , , , <del>, , ,</del> ,	AR	53 Englis Pages	h-language A (August 8, 1	Abstract of Ja 993 - Date o	apaneso	e Patent Publication No cation of application).	o. 58-1	33004, from <i>i</i>	http://www1.ipo	dl.jpo.go.jp, 2	
EXAMINER			···			- <u> </u>		DATE CON	SIDERED	<del> </del>	

AUG 1 6 2007

FORM PTO-1449

ORMATION DISCLOSURE STATEMENT

	rage 34 OL 36
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

_							y 16, 2001		2681		
-				-	U.S. F	PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER			DAT	E	NAME			CLASS	SUB- CLASS	FILING DATE
	AA54										
	AB54										
	AC54		1			<u> </u>			Į F	ECEN	AED.
	AD54			ļ		ļ					
	AE54					<u> </u>				AUG 2 0	2002
	AF54	ļ		ļ		<u> </u>			Techr	20/0000	<u> </u>
	AG54	1		<u> </u>		<del> </del>			100111	ology Cent	er 2600
	AH54	-		ļ		╂			<u> </u>	-	<del> </del>
	_  Al54								<u> </u>		
	<del></del>	т —			FOREIGI	N PAT	ENT DOCUMENTS	<del></del>	T		T
EXAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
	AJ54										Y 1
	AK54										Ye
	AL54										Ye
	AM54										Y
	<u> </u>	•	ОТНІ	ER (Inc	cluding Aut	hor, T	itle, Date, Pertinent P	ages, et	tc.)		·
	AN	<u>54</u>	English-langu Pages (April	uage A 4, 198	bstract of Ja 5 - Date of p	apanes oublicat	e Patent Publication N tion of application).	o. 60-05	8705, from <i>h</i>	nttp://www1.ip	odl.jpo.go.jp, 2
•	AO	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 04-123614, from http://www1.ipdl.jpo.go.jp, 2 Pages (April 23, 1992 - Date of publication of application).								
AP  English-language Abstract of Japanese Patent Publication No. 04-127601, from http://www1.ipdl.jpo.g Pages (April 28, 1992 - Date of publication of application).										odl.jpo.go.jp, 2	
	AQ	<u>54</u>	English-langu Pages (July 1	uage A 13, 199	bstract of Ja 93 - Date of	apanes publica	e Patent Publication Nation of application).	o. 05-17	5730, from <i>h</i>	ttp://www1.ip	odl.jpo.go.jp, 2
	AR	<u>54</u>					e Patent Publication Nation of application).	o. 05-17	5734, from <i>h</i>	ettp://www1.ip	odl.jpo.go.jp, 2
EXAMINER	1	<del></del>	<u></u>	,			···		DATE CONS	IDERED	

AUG 1 6 2002 W

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851	
APPLICANT Sorrells et al.		
FILING DATE May 16, 2001	GROUP 2681	

						Ma	y 16, 2001		2681			
					U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL	DOCUM NUMBE		DCUMENT DATE		ATE N		NAME		CLASS	SUB- CLASS	FILING DATE	
	AA55											
	AB55											
	AC55											
	AD55								L RE	CEIVE	D	
	AE55											
	AF55								AU	<b>5 2 0</b> 200	2	
	AG55								Toutout			
	AH55	-↓							recrinoid	gy Center	2600	
	Al55	1		]		<u></u>						
					FOREIGN	I PATI	NT DOCUMENTS					
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION	
	AJ55					·					Ye No	
	AK55										Yes No	
	AL55										Yes No	
	AM55										Yes No	
			ОТН	ER (Inc	cluding Auti	nor, Ti	tle, Date, Pertinent Pa	ges, e	tc.)			
	AN	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 07-154344, from http://www1.ipdl.jpo.go.jp, 2 Pages (June 16, 1995 - Date of publication of application).									
	AO	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 07-307620, from http://www1.ipdl.jpo.go.jp, 2 Pages (November 21, 1995 - Date of publication of application).									
	АР	<u>55</u>	Oppenheim, A.V. and Schafer, R.W., <i>Digital Signal Processing</i> , Prentice-Hall, pp. vii-x, 6-35, 45-78, 87-121 and 136-165 (1975).									
AQ 55 English-language Abstract of Japanese Patent Publication No. 55-06 Page (May 19, 1980 - Date of publication of application).								66057, from http://www1.ipdl.jpo.go.jp, 1				
	AR	<u>55</u>	English-langu Page (March	age A 24, 19	bstract of Ja 88 - Date of	panes public	e Patent Publication No ation of application).	. 63-06	65587, from <i>htt</i>	p://www1.ipa	II.jpo.go.jp, 1	
EXAMINER									DATE CONSI	DERED		

AUG 1 6 2002 E

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

<u> </u>						Ma	y 16, 2001		2681		
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DATE		NAM			CLASS	SUB- CLASS	FILING DATE
	AA56								1		
	AB56										
	AC56								DEC	EIVE	<b>b</b>
	AD56										
	AE56								ALIC	2 0 200	2
	AF56								l .		1
	AG56	<u></u>							Technolo	gy Center	2600
	AH56	Щ		<u> </u>		<u> </u>				<u> </u>	ļ
··	AI56					<u> </u>			'		
					FOREIGN	I PAT	ENT DOCUMENTS			·	
EXAMINER INITIAL		DOC	CUMENT NUME	BER DATE			COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ56										Yes No
	AK56										Yes No
	AL56										Yes No
	AM56										Yes No
			OTHE	R (Inc	cluding Auti	hor, T	itle, Date, Pertinent Pa	ages, et	ic.)		
	AN	<u>56</u>	English-langu Page (June 2	age Al 7, 198	bstract of Ja 8 - Date of p	panes oublica	e Patent Publication No tion of application).	э. 63-15	3691, from <i>ht</i> r	tp://www1.ipa	1l.jpo.go.jp, 1
	АО	<u>56</u>									
	АР	<u>56</u>									
	AQ	<u>56</u>									
	AR	<u>56</u>									
EXAMINER	<u>L</u>		to the second se		<del></del>			1	DATE CONSI	DERED	